

| Set | Items | Description |
|-----|---------|---|
| S1 | 24 | AU=(SOBEK W? OR SOBEK, W?) |
| S2 | 4571369 | UMBRELLA? OR CANOPY OR CANOPIES OR DEVICE? OR MEMBRANE? |
| S3 | 1720722 | ROTAT? OR CENTRIFUGAL? OR CIRCULAR(2N) (MOVE? OR MOTION?) |
| S4 | 2068401 | OPEN? OR EXPAND? OR EXPANSION? |
| S5 | 1028550 | SHAFT OR STEM OR DRIVER? |
| S6 | 2 | S1 AND S2 |
| S7 | 4572002 | S2 OR PARASOL? |
| S8 | 73099 | S3(10N)S4 |
| S9 | 3937 | S8(10N)S2 |
| S10 | 3937 | S9(10N)S7 |
| S11 | 36 | S10 AND IC=A45B? |

? show file

File 344:Chinese Patents Abs Aug 1985-2003/Feb

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File 347:JAPIO Oct 1976-2003/Jan(Updated 030506)

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File 350:Derwent WPIX 1963-2003/UD,UM &UP=200333

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File 371:French Patents 1961-2002/BOPI 200209

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11/5/1 (Item 1 from file: 344)
DIALOG(R)File 344:Chinese Patents Abs
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103834

**ROTARY AND FOLDING METHOD FOR GOODS OF DAILY USE AND RAIN-SUN CAP,
RAIN-SUN UMBRELLA & FOLDING FAN RELATED**

Patent Assignee: HUANG YONGMING (CN)
Author (Inventor): HUANG YONGMING (CN)
Number of Patents: 001

Patent Family:

| CC Number | Kind | Date |
|-------------|------|----------------|
| CN 85103834 | A | 870902 (Basic) |

Application Data:

| CC Number | Kind | Date |
|--------------|------|--------|
| *CN 85103834 | A | 850504 |

Abstract: The rotary and folding method is a method using disc (ring) and steel wires to fold transversally. On the two coaxial discs, several steel wires are fixed uniformly. The two ends of each steel wire are fixed to different discs respectively, so as to make the wires and the discs form a device, which enables the wires to be folded freely along with the relative rotation of the two discs. After opened, the whole device is shaping like a blossoming flower. The inven also includes rotary and folding rain-sun cap, rotary and folding umbrella and fan. Among them, the rotary and folding umbrellas can be made into automatic umbrellas in simple structure as well as large umbrellas which are the products of new generation and may be manually operated or electrically operated umbrellas-umbrella pavilion.

IPC: A42B-001/20; **A45B-019/00** ; **A45B-027/00**

11/5/2 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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07355335 **Image available**
FOLDING UMBRELLA

PUB. NO.: 2002-223828 [JP 2002223828 A]
PUBLISHED: August 13, 2002 (20020813)
INVENTOR(s): HIRAIWA EIJI
APPLICANT(s): HIRAIWA EIJI
APPL. NO.: 2001-028055 [JP 20011028055]
FILED: February 05, 2001 (20010205)
INTL CLASS: **A45B-019/10**

ABSTRACT

PROBLEM TO BE SOLVED: To provide a double folding umbrella which does not hinder the tensile strength of panels which keeps the shape of the umbrella spreading when it is opened and enables smooth operation to open and close.

SOLUTION: A structure that a folding rib 40 is rotated by a driving operation which goes almost parallel to a host rib 20 of a driving rib 50 is made, and when the umbrella is closed, an operation of a runner makes elastic force through the driving rib made of an elastic material act on an edge Q1 of the folding rib 40, and the initial operation of the driving rib 50 is made smooth. When the **umbrella is opened**, the driving rib makes the folding rib **rotate** wide and **open** enough before the tensility of panels affects a tip R and it prevents the folding rib 40 from returning in the former direction because of the tensility, and when the umbrella is opened up, the tensility of the panels is added and the driving rib is bent

under storing the reacting force, and the initial operation to close the umbrella is made smooth.

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11/5/3 (Item 2 from file: 347)

DIALOG(R)File 347:JAPIO

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06950964 **Image available**

UMBRELLA WITHOUT SPRING

PUB. NO.: 2001-178516 [JP 2001178516 A]

PUBLISHED: July 03, 2001 (20010703)

INVENTOR(s): RIN SHUNKO

CHO EIJIN

APPLICANT(s): FUTAI UMBRELLA FACTORY CO LTD

APPL. NO.: 2000-310831 [JP 2000310831]

FILED: October 11, 2000 (20001011)

PRIORITY: 11-294275 [JP 99294275], JP (Japan), October 15, 1999
(19991015)

INTL CLASS: **A45B-019/00 ; A45B-025/02**

ABSTRACT

PROBLEM TO BE SOLVED: To provide a safe umbrella having no spring which can be easily assembled and reduce the production cost and which is slim when it is folded.

SOLUTION: The umbrella is provided with a central handle 1, a frame assembly 2 having at least a top frame 21 to which an **umbrella** cloth is attached and an **expansion** frame 22 **rotatably** attached to an upper notch 20 and a lower notch 23 on the central handle 1 respectively, and forming an acute angle with the central handle in order to form the upward component raising up the expansion frame when the umbrella is opened and the respective expansion frames are tensed by the umbrella cloth, a tension rod 3 attached to the expansion frame, an extension rope 4 connected to the tension rod at the inside and fitted to the top frame, and a pole head member 13 fixed to the lower part of the central handle. The tension rope and the tension rod urge cooperatively the top frame toward the central handle when the umbrella is opened and the lower runner is engaged with the pole head member when the umbrella is closed to safely lock the frame assembly in the folded state and further, the tension rope and the rod are folded into the frame.

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11/5/4 (Item 3 from file: 347)

DIALOG(R)File 347:JAPIO

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06756447 **Image available**

RING FOR BUNDLING UMBRELLA

PUB. NO.: 2000-342315 [JP 2000342315 A]

PUBLISHED: December 12, 2000 (20001212)

INVENTOR(s): FUJIMURA HISAKI

APPLICANT(s): FUJIMURA HISAKI

APPL. NO.: 11-194889 [JP 99194889]

FILED: June 06, 1999 (19990606)

INTL CLASS: **A45B-025/12**

ABSTRACT

PROBLEM TO BE SOLVED: To easily bundle an umbrella without wetting a hand by cutting two points at predetermined angles of a water-proof hard ring, and mounting a spring on one cut part of the ring for opening and closing a ring body and the cut part by the action of the spring.

SOLUTION: A water-proof hard ring is cut at two points at an angle of about 135 degree, and a spring is mounted on one cut part to form a ring for bundling an umbrella. The ring body (a) and the ring cut parts (b) are opened and closed by the action of the spring, the grips (c) mounted at both ends of the spring are pressed for the opening and closing, but the ring is looked like a ring free from cuts in a closed state. When the grips (c) are pressed, the spring is compressed, and the ring body part (a) and the ring cut parts (b) are **opened**. When the **umbrella** is **rotated** to be fit in the ring, and the grips (c) are released in this state, the ring body part (a) and the ring cut parts (b) are closed by the action of the spring, and the ring cut parts rotate the ring body part (a) and the ring cut parts (b) in a state that the ring body part (a) and the ring cut parts (b) are slightly overlapped with each other.

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11/5/5 **(Item 4 from file: 347)**

DIALOG(R)File 347:JAPIO

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06451646 ****Image available****

MULTISTEP FOLDING JUMP UMBRELLA

PUB. NO.: 2000-037218 [JP 2000037218 A]

PUBLISHED: February 08, 2000 (20000208)

INVENTOR(s): RIN SHUNKO

 CHO EIJIN

APPLICANT(s): FUTAI UMBRELLA FACTORY CO LTD

APPL. NO.: 10-199054 [JP 98199054]

FILED: July 14, 1998 (19980714)

INTL CLASS: **A45B-019/10 ; A45B-025/16**

ABSTRACT

PROBLEM TO BE SOLVED: To provide a simple and small jump umbrella multifoldable in four steps.

SOLUTION: This umbrella is equipped with a rib assembly 2 at least constituted of a central shaft 1 comprising four telescopic tubes mutually engaged with, a top rib 21 rotatably attached to the top part of the central shaft, spread ribs 22 rotatably connected to the top rib and a lower runner 23 rotatably attached to the central shaft, and various ribs **rotatably** connected to the top rib and spread ribs, and an **opening** spring 3 to open the **umbrella** elastically held in the central shaft, a plurality of closing springs 4 arranged on the rib assembly to close the umbrella. The umbrella also has a controller equipped with an upper roller 563 rotatably disposed on the upper part of the centra shaft, a lower roller 564 rotatably disposed on the lower runner, and an uppermost roller 565 rotatably disposed on the top part of the central shaft to wind up a tension rope continuously changing so as to make the umbrella a four step foldable. umbrella to directions.

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11/5/6 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO
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06372089 **Image available**
WATER ABSORBING ROLLERS AND UMBRELLA WATER DROP REMOVING MACHINE

PUB. NO.: 11-313707 [JP 11313707 A]
PUBLISHED: November 16, 1999 (19991116)
INVENTOR(s): MIYAGAWA SHIYUUGO
APPLICANT(s): MIYAGAWA SHIYUUGO
APPL. NO.: 10-124658 [JP 98124658]
FILED: May 07, 1998 (19980507)
INTL CLASS: **A45B-025/28** ; F16C-013/00

ABSTRACT

PROBLEM TO BE SOLVED: To provide an umbrella water drop removing machine by which the water drops of an umbrella are removed by water absorbing rollers.

SOLUTION: Three pairs of water absorbing rollers 3 being excellent in water absorbing property are supported inside a case body 2 so as to be **rotatable**. An **opening** part 12 for enabling putting in/out the **umbrella** 4 is formed in the case body 2. The water absorbing rollers 3 and 3 are oppositely arranged so as to permit the entrance of the umbrella 4 and rolled on the outer front surface of the umbrella 4 in accordance with the movement of the umbrella 4. When the umbrella 4 is inserted between one pair of water absorbing rollers 3 and 3, the rollers 3 and 3 are rolled on the outer front surface of the umbrella 4 so as to absorb water.

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11/5/7 (Item 6 from file: 347)
DIALOG(R)File 347:JAPIO
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05517415 **Image available**
DEVICE FOR AUTOMATICALLY BAGGING UMBRELLA

PUB. NO.: 09-132215 [JP 9132215 A]
PUBLISHED: May 20, 1997 (19970520)
INVENTOR(s): TAMURA TSUTOMU
APPLICANT(s): N Y P KK [000000] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 07-316074 [JP 95316074]
FILED: November 09, 1995 (19951109)
INTL CLASS: [6] B65B-067/04; **A45B-025/24** ; **A45B-025/28** ; B65B-043/28; B65B-067/12
JAPIO CLASS: 31.1 (PACKAGING -- General); 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings); 31.2 (PACKAGING -- Containers)

ABSTRACT

PROBLEM TO BE SOLVED: To put an umbrella into an umbrella bag reliably, and prevent chips of umbrella bags from remaining in the device by a method wherein a bag opening piece which opens the bag prior to the reaching of the tip of an umbrella while interlocking with the insertion of the umbrella, is provided, and at the same time, the variation of a

press-feeding pressure of the bag is kept to its minimum by using a coil spring and spring arms.

SOLUTION: In a case 3 of an automatic bag fitting device 1, an umbrella fitting mechanism 11 and an umbrella press-feeding mechanism 61 are installed. At the right side end part on the upper surface of a base body 12 of the umbrella fitting mechanism 11, a hinge plate for the actuating plate 14 being fixed with machine screws by a holding plate 16, and the actuating plate 14 being equipped with an umbrella guide 51 is urged upward by a coil spring, and is approximately horizontally fitted. In addition, on the right side surface of the base body 12, a working plate 19 which has a bag opening piece 21 at the leading end is **rotatably** attached, and when an **umbrella** is inserted, the actuating plate 14 is pressed downward, and when the leading end touches the working plate 19, the working plate 19 also **rotates**, and the bag opening piece 21 **opens** the mouth of an **umbrella** bag. Also, an **umbrella** bag press-feeding mechanism 61 is equipped with a pair of long spring arms 64 which are urged by a torsion coil spring.

11/5/8 (Item 7 from file: 347)

DIALOG(R)File 347:JAPIO

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04913344 **Image available**

UMBRELLA BAG STORAGE DEVICE

PUB. NO.: 07-205944 [JP 7205944 A]
PUBLISHED: August 08, 1995 (19950808)
INVENTOR(s): MURAKAMI TOSHIYUKI
NIIKURA MOTONARI
APPLICANT(s): MURAHARU SEISAKUSHO KK [000000] (A Japanese Company or Corporation), JP (Japan)
NIIKURA KEIRYOKI KK [000000] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 06-019969 [JP 9419969]
FILED: January 20, 1994 (19940120)
INTL CLASS: [6] B65B-067/12; **A45B-025/24** ; **A45B-025/28** ; B65B-043/28
JAPIO CLASS: 31.1 (PACKAGING -- General); 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings); 31.2 (PACKAGING -- Containers)

ABSTRACT

PURPOSE: To provide an umbrella bag storage device of which the structure is simple, and which can assuredly put an umbrella in a storage bag, for a device which is provided at the entrance of, e.g. a hotel or store, etc., and in which a wet umbrella is automatically put in a bag on rainy days, and umbrella storage bags to be used for such a device.

CONSTITUTION: Storage bags 4 for **umbrellas** U are loaded in a **device** main body 1. Then, an opening operation member 20 which **opens** the insertion port 4a of the storage bag 4 is **rotatably** provided in the **device** main body 1. The **device** is constituted in such a manner that the insertion port 4a of the storage bag 4 is **opened** by **rotating** the **opening** operation member 20 by the tip of an **umbrella**.

11/5/9 (Item 8 from file: 347)

DIALOG(R)File 347:JAPIO

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04807408 **Image available**
UMBRELLA

PUB. NO.: 07-100008 [JP 7100008 A]
PUBLISHED: April 18, 1995 (19950418)
INVENTOR(s): HARASAWA KAZUO
APPLICANT(s): HARASAWA KAZUO [000000] (An Individual), JP (Japan)
APPL. NO.: 05-269704 [JP 93269704]
FILED: October 01, 1993 (19931001)
INTL CLASS: [6] **A45B-019/00 ; A45B-019/04 ; A45B-019/06**
JAPIO CLASS: 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings)

ABSTRACT

PURPOSE: To simplify contraction work of an umbrella, and contain it in a bag even when a cloth is wet.

CONSTITUTION: In this umbrella main body comprising a grip part 2 which can be opened/closed by a cover, a middle rod 4 and ribs 6 capable of expansion/contraction comprising short pipes of different diameters slidably engaged with each other to slide axially, and a lower joint 7 provided between the middle rod 4 and the ribs 6, an operation shaft pipe 11 is rotated by rotation of an operation knob 13, a gear mechanism 16 and a supply roller 17 are rotated to move an axial line 18, and the ribs 6 are expanded/contracted in order from the short pipe 5 at the forward end on. The middle rod 4 is then expanded/contracted axially, the operation shaft pipe 11 and an expansion pipe 12 are expanded/contracted, and in umbrella, the main body of the ribs 6, middle rod 4, operation shaft pipe 11, expansion pipe 12, etc., is contracted to a length comparable with that of the grip part 2 to be contained in a containing part 20, while in opening the **umbrella** , all the parts are **expanded** from the containing part by **rotation** of the operation knob 13 to **open** the **umbrella** .

11/5/10 (Item 9 from file: 347)
DIALOG(R)File 347:JAPIO
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03666122 **Image available**
AUTOMATIC OPENING DEVICE FOR UMBRELLA STORAGE BAG

PUB. NO.: 04-031222 [JP 4031222 A]
PUBLISHED: February 03, 1992 (19920203)
INVENTOR(s): TAKIMOTO SUMIICHI
APPLICANT(s): TAKIMOTO SUMIICHI [000000] (An Individual), JP (Japan)
APPL. NO.: 02-130845 [JP 90130845]
FILED: May 21, 1990 (19900521)
INTL CLASS: [5] B65B-043/30; **A45B-025/24**
JAPIO CLASS: 31.1 (PACKAGING -- General); 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings); 31.2 (PACKAGING -- Containers)
JOURNAL: Section: M, Section No. 1248, Vol. 16, No. 206, Pg. 14, May 15, 1992 (19920515)

ABSTRACT

PURPOSE: To make it possible to form an opening assuredly at the opening of an umbrella storage bag by a compact and simple constitution without a large power such as negative pressure source, etc., and power to form an opening by a method wherein an adhering member which adhere to an umbrella storage bag is brought into contact with the opening of the umbrella storage bag, and an opening of the umbrella storage bag is formed by moving

the adhering member.

CONSTITUTION: Fitting of an umbrella storage bag 50 is performed by turning a servo motor 40 by an approximate half and operating a guide ring link mechanism 20 and an **opening** link mechanism 30. Then, the servo motor 40 is **rotated** again, and the title **device** goes through a condition shown in Figure 5 and stands by under a condition shown in Figure 1. When the opening link mechanism 30 is under the condition shown in Figure 5, the tip of a working arm 30d comes into contact with the umbrella storage bag 50 and adheres to the upper end of a bag piece 50a of the umbrella storage bag 50 by an adhesive applied on the tip. When returning to the condition shown in Figure 1, the working arm 30d draws the bag piece 50a. In the meantime, since the other bag piece 50b of the umbrella storage bag 50 is stopped by a stopper 60b, both bag pieces 50a, 50b are separated, and an opening is formed.

11/5/11 (Item 10 from file: 347)

DIALOG(R)File 347:JAPIO

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03374105 **Image available**

UMBRELLA DEVICE

PUB. NO.: 03-037005 [JP 3037005 A]

PUBLISHED: February 18, 1991 (19910218)

INVENTOR(s): MAKABE SUSUMU

APPLICANT(s): MAKABE SUSUMU [000000] (An Individual), JP (Japan)

APPL. NO.: 01-172430 [JP 89172430]

FILED: July 04, 1989 (19890704)

INTL CLASS: [5] **A45B-019/00**

JAPIO CLASS: 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings)

JOURNAL: Section: C, Section No. 827, Vol. 15, No. 167, Pg. 48, April 26, 1991 (19910426)

ABSTRACT

PURPOSE: To prevent rain drops from falling onto a floor or the like, by setting the opening and closing directions of an umbrella to be reverse to those of a conventional umbrella so as to prevent rain water from spilling.

CONSTITUTION: When an umbrella is opened, a slidable cylindrical grip 15 is pushed up so that a first support ribs 19 are moved upward. Then the upper end parts of a second support ribs having their lower ends journaled to the intermediate parts of the first support ribs 9 are rotated in the opening direction, relative to a stationary cylindrical part. Accordingly, the first support ribs are **rotated** in the **opening** direction, relative to an **umbrella** shaft. When the angle between the first ribs and the lower parts of the second ribs becomes minimum, the slidable cylindrical grip is engaged with an ejector pawl 14. Upon closing the umbrella, the slidable cylindrical grip is disengaged from the ejector pawl 14, and then, is moved downward, and accordingly, the first support ribs moved downward. Then the upper end parts of the second support ribs 21 whose lower end parts are journaled to the intermediate parts of the first support ribs, are rotated in the closing direction, relative to the stationary cylindrical part. In association with the rotation of the second support ribs, the first support ribs are also rotated in the closing direction, relative to the umbrella shaft.

11/5/12 (Item 11 from file: 347)

DIALOG(R)File 347:JAPIO

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02959308 **Image available**
FITTING DEVICE FOR STRETCHER OF UMBRELLA

PUB. NO.: 01-256908 [JP 1256908 A]
PUBLISHED: October 13, 1989 (19891013)
INVENTOR(s): MITA KOICHI
APPLICANT(s): MITA KOICHI [000000] (An Individual), JP (Japan)
APPL. NO.: 63-086577 [JP 8886577]
FILED: April 07, 1988 (19880407)
INTL CLASS: [4] **A45B-025/06 ; A45B-025/02**
JAPIO CLASS: 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings)
JOURNAL: Section: C, Section No. 674, Vol. 14, No. 14, Pg. 46, January
 12, 1990 (19900112)

ABSTRACT

PURPOSE: To facilitate the connection work of stretchers to ribs by integrally forming connecting tools with synthetic resin and outwardly coupling them with recessed sections while elastically deforming them.

CONSTITUTION: Fixed and mobile runners 4 and 5 and connecting tools 6 are integrally formed with elastic hard or soft synthetic resin, e.g., polypropylene or the like. The connecting tools 6 are outwardly fixed to recessed sections 17 of ribs 2 and have outer coupling sections 18 outwardly fixed to the recessed sections 17, bottomed cylindrical fitting sections 19 fitted to one end of stretchers 3, and thin hinge sections 20 connecting the outer coupling sections 18 and the fitting sections 19 and bent to **rotate** the stretchers 3 when an **umbrella** is **opened** or closed. When the stretchers are to be connected to the runners via the connecting tools, the connecting tools are outwardly fixed to the recessed sections of the ribs while being elastically deformed, then the stretchers are only required to be fitted to the fitting sections of the connecting tools, the connection work of the stretchers to the ribs can be easily performed in a short time.

11/5/13 (Item 12 from file: 347)

DIALOG(R)File 347:JAPIO
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02959307 **Image available**
FITTING DEVICE FOR UMBRELLA RIB

PUB. NO.: 01-256907 [JP 1256907 A]
PUBLISHED: October 13, 1989 (19891013)
INVENTOR(s): MITA KOICHI
APPLICANT(s): MITA KOICHI [000000] (An Individual), JP (Japan)
APPL. NO.: 63-086576 [JP 8886576]
FILED: April 07, 1988 (19880407)
INTL CLASS: [4] **A45B-025/06 ; A45B-025/02**
JAPIO CLASS: 30.3 (MISCELLANEOUS GOODS -- Clothing & Personal Belongings)
JOURNAL: Section: C, Section No. 674, Vol. 14, No. 14, Pg. 46, January
 12, 1990 (19900112)

ABSTRACT

PURPOSE: To prevent ribs and stretchers from being easily released due to the corrosion of wires in use over a long period by integrally forming at least one runner with synthetic resin and moving the mobile runners when an umbrella is opened or closed.

CONSTITUTION: Fixed and mobile runners 4 and 5 and connecting tools 6 are integrally formed with an elastic hard or soft synthetic resin material, e.g., polypropylene or the like. The mobile runners 5 is movably coupled with a shaft 1 in the axial direction and has a cylindrical outer coupling section 14 outwardly coupled with the shaft 1, a bottomed cylindrical fitting section 15 fitted with one end stretchers 3 arranged at a uniform interval in the peripheral direction of the outer coupling section 14, and a thin hinge section 16 connecting the outer coupling section 14 and the fitting section 15 and bent to **rotate** the stretchers 3 when an **umbrella** is **opened** or closed. Ribs and stretchers can be smoothly and easily **rotated**, no wire is used to connect runners to ribs and stretchers, thus the ribs and the stretchers are prevented from being easily released due to the corrosion of wires.

11/5/14 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014857149 **Image available**
WPI Acc No: 2002-677855/200273
XRPX Acc No: N02-535900

Two stage folding umbrella has drive rib pivoted into connecting point of folding rib and master frame to enable rotation of folding rib

Patent Assignee: HIRAIWA E (HIRA-I)
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|--------------|------|----------|----------|
| JP 2002223828 | A | 20020813 | JP 200128055 | A | 20010205 | 200273 B |

Priority Applications (No Type Date): JP 200128055 A 20010205

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|---------------|------|--------|---------------|--------------|
| JP 2002223828 | A | | 8 A45B-019/10 | |

Abstract (Basic): JP 2002223828 A

NOVELTY - A drive rib (50), installed near parallel to a master frame (20), has one end pivoted to the connecting point (P1) of the master frame and a folding rib (40) via link mechanism. A support frame (30), linked to the master frame, has one end coupled to a runner (12). By moving the runner up and down along an umbrella shaft, the support frame rotates, and the drive rib rotates the folding rib.

DETAILED DESCRIPTION - An umbrella cloth is attached to the tip of the folding rib. When the **umbrella opens**, the folding rib is **rotatable** up to angle beyond 90 degrees.

USE - Two stage folding umbrella.

ADVANTAGE - Enables user to smoothly open, close and fold wet umbrella, without significantly staining user's clothes. Simplifies manufacture of umbrella.

DESCRIPTION OF DRAWING(S) - The figure shows the side view of an umbrella in a partially opened condition.

Runner (12)
Master frame (20)
Support frame (30)
Folding rib (40)
Drive rib (50)
Connecting point (P1)
pp; 8 DwgNo 1/11

Title Terms: TWO; STAGE; FOLD; UMBRELLA; DRIVE; RIB; PIVOT; CONNECT; POINT;
FOLD; RIB; MASTER; FRAME; ENABLE; ROTATING; FOLD; RIB
Derwent Class: P24

International Patent Class (Main): **A45B-019/10**
File Segment: EngPI

11/5/15 (Item 2 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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014827587 **Image available**
WPI Acc No: 2002-648293/200270
XRPX Acc No: N02-512913

Umbrella with fan, uses fan blades fixed to rotary sleeve which can be rotated when spreading cloth is in opened umbrella state, for ventilation

Patent Assignee: HASHIMOTO Y (HASH-I)
Number of Countries: 001 Number of Patents: 001
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|---------------|------|----------|----------|
| JP 2002199916 | A | 20020716 | JP 2000402055 | A | 20001228 | 200270 B |

Priority Applications (No Type Date): JP 2000402055 A 20001228

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|---------------|------|-----|----|-------------|--------------|
| JP 2002199916 | A | | 7 | A45B-003/00 | |

Abstract (Basic): JP 2002199916 A

NOVELTY - The umbrella (1) has a spreading cloth (28) which is deformed between an expanded opened umbrella state and a folded closed umbrella state. The spreading cloth is supported by bones (9) fixed to an inner rod (2). Fan blades (6) for ventilation are fixed to a rotary sleeve (5) which is **rotated** when the spreading cloth is in **opened umbrella** state.

USE - For keeping rain off from a person and providing a ventilation to the person at the time of a rainy weather.

ADVANTAGE - Refreshing breeze can be obtained based on rotation of fan blades automatically while preventing a hot effect and keeping off rain during a rainy weather, since a rotary sleeve to which the fan blades are fixed can be **rotated** when the spreading cloth is in **opened umbrella** state.

DESCRIPTION OF DRAWING(S) - The figure shows the longitudinal cross-sectional view of an umbrella with a fan showing the closed umbrella state of the spreading cloth. (Drawing includes non-English language text).

Umbrella (1)
Inner rod (2)
Rotary sleeve (5)
Fan blade (6)
Bones (9)
Spreading cloth (28)
pp; 7 DwgNo 1/8

Title Terms: UMBRELLA; FAN; FAN; BLADE; FIX; ROTATING; SLEEVE; CAN; ROTATING; SPREAD; CLOTH; OPEN; UMBRELLA; STATE; VENTILATION

Derwent Class: P24

International Patent Class (Main): **A45B-003/00**

International Patent Class (Additional): **A45B-009/00**

File Segment: EngPI

11/5/16 (Item 3 from file: 350)
DIALOG(R) File 350:Derwent WPIX

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013865775 **Image available**

WPI Acc No: 2001-349987/200137

XRAM Acc No: C01-108440

XRPX Acc No: N01-253823

Bag covering apparatus for wet umbrella used in departmental store, building, comprises cross board hinged with tongue to hold umbrella bag in suspended state below the umbrella insertion opening

Patent Assignee: TAMURA T (TAMU-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|-------------|------|----------|----------|
| JP 2001097328 | A | 20010410 | JP 99279221 | A | 19990930 | 200137 B |

Priority Applications (No Type Date): JP 99279221 A 19990930

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|---------------|------|--------|-------------|--------------|
| JP 2001097328 | A | 6 | B65B-067/12 | |

Abstract (Basic): JP 2001097328 A

NOVELTY - Umbrella insertion opening (7) is at upper side of box. Cross board (9) hinged with tongue (13), is set horizontally by closing opening (7) and holding umbrella bag in suspended state. Door (8) hinged to box side, closes side opening. When umbrella is inserted, board is rotated to open upper opening, and tongue drags umbrella bag from storage position. When side door is opened to remove bag covered umbrella, board is set horizontally.

USE - Used in building, store, departmental store, for covering wet umbrella with bag.

ADVANTAGE - The cross board holds bag below the insertion opening, hence wrapping of wet umbrella becomes more easy by children and old people.

DESCRIPTION OF DRAWING(S) - The figure shows the explanatory view of the bag covering apparatus.

Inlet opening (7)

Door (8)

Cross board (9)

Tongue (13)

pp; 6 DwgNo 2/4

Title Terms: BAG; COVER; APPARATUS; WET; UMBRELLA; DEPARTMENT; STORAGE;

BUILD; COMPRISE; CROSS; BOARD; HINGE; TONGUE; HOLD; UMBRELLA; BAG;

SUSPENSION; STATE; BELOW; UMBRELLA; INSERT; OPEN

Derwent Class: A97; P24; Q31

International Patent Class (Main): B65B-067/12

International Patent Class (Additional): A45B-025/28 ; B65B-043/28

File Segment: CPI; EngPI

11/5/17 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013781530 **Image available**

WPI Acc No: 2001-265741/200127

XRPX Acc No: N01-190081

Umbrella assembly has cable coupled to adapter such that adapter may be releasably secured to umbrella frame to allow umbrella frame to be tilted and secured in inclined position

Patent Assignee: GOLDWITZ T (GOLD-I)

Inventor: GOLDWITZ B L

Number of Countries: 095 Number of Patents: 003

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|--------------|------|----------|----------------|------|----------|----------|
| WO 200112009 | A1 | 20010222 | WO 2000US40639 | A | 20000814 | 200127 B |
| AU 200077599 | A | 20010313 | AU 200077599 | A | 20000814 | 200134 |
| EP 1211960 | A1 | 20020612 | EP 2000967391 | A | 20000814 | 200239 |
| | | | WO 2000US40639 | A | 20000814 | |

Priority Applications (No Type Date): US 99158580 P 19991007; US 99149026 P 19990813

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
|-----------|------|-----|----|----------|--------------|

| | | | | | |
|--------------|----|---|----|-------------|--|
| WO 200112009 | A1 | E | 30 | A45B-011/00 | |
|--------------|----|---|----|-------------|--|

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TZ UG ZW

| | | | | | |
|--------------|---|--|--|-------------|------------------------------|
| AU 200077599 | A | | | A45B-011/00 | Based on patent WO 200112009 |
|--------------|---|--|--|-------------|------------------------------|

| | | | | | |
|------------|----|---|--|-------------|------------------------------|
| EP 1211960 | A1 | E | | A45B-011/00 | Based on patent WO 200112009 |
|------------|----|---|--|-------------|------------------------------|

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200112009 A1

NOVELTY - An umbrella frame (20) has an adapter (18) releasably engagable with the carriage. A cable is coupled to a handle (28) on the pole and frame such that by **rotating** the handle, the cable is retracted and the **umbrella** is **opened**, and by **rotating** the handle in the opposite direction, the cable is released, the umbrella is collapsed, and the carriage is slidable along the pole. The cable is coupled to the adapter such that the adapter may be releasably secured to the umbrella frame to allow the umbrella frame to be tilted and secured in an inclined position.

DETAILED DESCRIPTION - The umbrella assembly (10) has a carriage (16) slidably mounted on a pole (14) which is mounted on a base (12). A handle (28) is rotatably mounted on the pole.

USE - As umbrella assembly.

ADVANTAGE - The supporting frame has one upright member instead of a mast and boom assembly. A relatively simple supporting frame structure and drive mechanism can correspondingly decreasing the overall manufacturing and consumer cost.

DESCRIPTION OF DRAWING(S) - The drawing is a side perspective view of an umbrella assembly showing a pole extending upwardly and laterally from the base.

Umbrella assembly (10)

Base (12)

Pole (14)

Carriage (16)

Adapter (18)

Umbrella frame (20)

Handle (28)

pp; 30 DwgNo 1/12

Title Terms: UMBRELLA; ASSEMBLE; CABLE; COUPLE; RELEASE; SECURE; UMBRELLA; FRAME; ALLOW; UMBRELLA; FRAME; TILT; SECURE; INCLINE; POSITION

Derwent Class: P24

International Patent Class (Main): **A45B-011/00**

File Segment: EngPI

11/5/18 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013377428
WPI Acc No: 2000-549366/200050
XRPX Acc No: N00-406413

One-hand openable and closable device for an umbrella

Patent Assignee: YUNG K (YUNG-I)
Inventor: YUNG K
Number of Countries: 021 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
WO 200049904 A1 20000831 WO 99CN153 A 19990927 200050 B

Priority Applications (No Type Date): CN 99U202924 U 19990224

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
WO 200049904 A1 C A45B-025/14
Designated States (National): CN JP US
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE

Abstract (Basic): WO 200049904 A1

NOVELTY - An opening and closing **device** for an **umbrella** which can be handled by one hand. The **umbrella** is **opened** by means of an operating member which **rotate** a gear and at the same time drives an elongated member engaged with the gear. The process of the umbrella's opening may be accomplished by manipulating the operating member once, twice or several times. So, the umbrella can be easy to open. When the device is used in an umbrella with a telescopic stem, the elongated member comes out from the umbrella's handle or comes back to the handle with stem's expanding or contracting.

USE - One-hand openable and closable device for an umbrella.
pp; 0 DwgNo 0/0

Title Terms: ONE; HAND; OPEN; CLOSE; DEVICE; UMBRELLA
Derwent Class: P24
International Patent Class (Main): **A45B-025/14**
File Segment: EngPI

11/5/19 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

013343576 **Image available**
WPI Acc No: 2000-515515/200047
XRPX Acc No: N00-381066

Drive mechanism connected to membrane for forming rotary tire has caps, hub and volume with air-inlet

Patent Assignee: BAUMUELLER D (BAUM-I)
Inventor: BAUMUELLER D; BAUMUELLER G
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
DE 19901926 C1 20000907 DE 1001926 A 19990119 200047 B

Priority Applications (No Type Date): DE 1001926 A 19990119

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 19901926 C1 8 A45B-019/02

Abstract (Basic): DE 19901926 C1

NOVELTY - The appliance for forming a rotary tire has a drive mechanism to which is connected a membrane rotarily mounted on a hub (11). The membrane has at least two caps (8,9) separated by an equator (10). The periphery of the surfaces intersecting the caps at right angles to the rotational axis increases from the hub to the equator, so that when the **membrane rotates** round the hub it envelopes a volume which has an **opening** (14) through which flows external air.

USE - The rotary tire is especially for a sun-shade or umbrella.

ADVANTAGE - The umbrella/sun-shade is easily handled and can be quickly and automatically closed in wind and is made of low-density flexible material not liable to cause risk

DESCRIPTION OF DRAWING(S) - The drawing shows a slanting view of the rotational tire with part of the top membrane removed.

Caps (8,9)

Equator (10)

Hub (11)

Opening (14)

pp; 8 DwgNo 3/12

Title Terms: DRIVE; MECHANISM; CONNECT; MEMBRANE; FORMING; ROTATING; CAP; HUB; VOLUME; AIR; INLET

Derwent Class: P24

International Patent Class (Main): **A45B-019/02**

International Patent Class (Additional): **A45B-023/00**

File Segment: EngPI

11/5/20 (Item 7 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

012783851 **Image available**

WPI Acc No: 1999-590077/199950

XRPX Acc No: N99-435140

Pleated collapsible shield and support binder assembly for foldable umbrella hat

Patent Assignee: NEAL J R (NEAL-I)

Inventor: NEAL J R

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| US 5967161 | A | 19991019 | US 9747406 | A | 19970522 | 199950 B |
| | | | US 9834292 | A | 19980304 | |

Priority Applications (No Type Date): US 9747406 P 19970522; US 9834292 A 19980304

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|------------|------|-----|----|-------------|------------------------------------|
| US 5967161 | A | | 8 | A42B-001/20 | Provisional application US 9747406 |

Abstract (Basic): US 5967161 A

NOVELTY - Meshing tips (60) disposed at interior end (11) of pleated shield (10), extend beyond a binder spine (21) at fan center when **umbrella** fan is in **opened** position. The **umbrella** fan is **rotatable** between **open** position in which pleats are radially arranged, closed position in which pleats are substantially parallel to opposing sides and intermediate position in which pleats are fanned.

DETAILED DESCRIPTION - The foldable umbrella fan includes a support

binder (20) that has a pair of binder arms (22) connected to opposing sides of pleated shield (10). Each binder arm has its inner surface (25) facing one of opposing sides (13) of pleated shield and outer surface (26), exterior end and interior end facing adjacent to interior end of pleated shield. The support binder also has a flexible binder spine (21) which pivotally interconnects the interior ends of binder arm and pleated shield for establishing planar pivotable movement of pleated shield and binder arms around the binder spine. A spring (30) disposed at interior end of support binder, biases the umbrella fan towards a desired position. The support binder has a chin strap recess (24).

USE - For foldable umbrella hats which can also be used as fans.

ADVANTAGE - The umbrella fan is spreadable to any partially opened orientation therefore instead of fully opening it, the wearer can use it as fan. As the foldable umbrella fan has flat rectangular profile, it can be stored in a pocket thereby making carrying umbrella fan easier for persons who are not carrying briefcases or handbags. Once the umbrella fan is displayed in open position, it is easily positioned over wearer's head to shield the wearer from rain or sunshine.

DESCRIPTION OF DRAWING(S) - The figure shows exploded perspective view of foldable umbrella fan in partially opened position.

Pleated shield (10)
Interior end (11)
Opposing sides of shield (13)
Binder spine (21)
Binder arm (22)
Recess (24)
Inner surface (25)
Outer surface (26)
Meshing tip (60)
pp; 8 DwgNo 3/5

Title Terms: PLEAT; COLLAPSE; SHIELD; SUPPORT; BIND; ASSEMBLE; FOLD;
UMBRELLA; HAT

Derwent Class: P21; P24

International Patent Class (Main): A42B-001/20

International Patent Class (Additional): A45B-011/04 ; A45B-019/00 ;
A45B-027/00

File Segment: EngPI

11/5/21 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012757188 **Image available**

WPI Acc No: 1999-563307/199948

XRPX Acc No: N99-416295

Automatic opening mechanism for umbrella

Patent Assignee: KO C (KOCC-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|---------------|------|----------|----------|
| DE 29914354 | U1 | 19991007 | DE 99U2014354 | U | 19990817 | 199948 B |

Priority Applications (No Type Date): DE 99U2014354 U 19990817

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|-------------|------|--------|-------------|--------------|
| DE 29914354 | U1 | 16 | A45B-025/14 | |

Abstract (Basic): DE 29914354 U1

NOVELTY - Automatic opening mechanism for umbrella comprises a

system of pull cords, belt wheels, weight and springs housed inside the umbrella shaft divided into top and bottom sections by a hollow stopper.

DETAILED DESCRIPTION - A third tubular section (12) of the umbrella shaft contains a hollow stopper (17) dividing the inside of the shaft into two top and bottom sections, each containing a spring (21, 22). A further spring (23) provided in the third tubular section has its bottom end pressing against the top of the second tubular section (13) of the shaft beneath the third section. An internal copper tube (15) is located in the top shaft section and inside this tube there is a glide block (16) whose top and bottom surfaces touch against belt wheels (161, 162). A fourth tubular section (11) of the shaft in its top section contains belt wheels (51, 52) on either side of the shaft, as well as a further belt wheel (53) in a sliding part (31) on the same side of the shaft as one of the previously mentioned belt wheels. The shaft contains two pull cords (42), the top cord being attached at its upper end to a grooved part (3) in the top of the shaft, whilst the lower end extends downwards, passing around half a revolution of the belt wheel in the sliding part before extending back upwards to pass a belt wheel on the same side of the shaft as the one in the sliding part, through the copper tube, around the top belt wheel (161) in a U-shaped path, past the belt wheel on the opposite side of the shaft, and finally being secured to the sliding part. A projectile-shaped weight (421) is secured to its top side to the bottom pull cord (42), which extends upwards to pass the bottom belt wheel before being secured to the bottom end of the copper tube. The grooved part and sliding part, which glides up and down the shaft, are both **rotatably** mounted on the inner end of the **umbrella opening** mechanism or the ribs belonging to this system.

USE - None given.

ADVANTAGE - Accidental activation of the umbrella opening mechanism is prevented, and the mechanism is suitable for umbrellas folded more than three times.

DESCRIPTION OF DRAWING(S) - The drawing shows a cross-section of a collapsible umbrella with the automatic opening mechanism in the closed state.

- Grooved part (3)
- Pin (6)
- Umbrella handle (7)
- Tubular sections of umbrella shaft (11-14)
- Inner copper tube (15)
- Glide block (16)
- Hollow stopper (17)
- Top spring (21)
- Bottom spring (22)
- Spring (23)
- Sliding part (31)
- Ribs (33-35)
- Tensioning device (36)
- Ribs (37, 38)
- Spring (39)
- Bottom pull cord (42)
- Belt wheels (51-53)
- Bottom release catch (61)
- Top release catch (62)
- Locking block (63)
- Button for operating the opening mechanism (71)
- Openings in rod tubular sections (121, 131)
- Top belt wheel (161)
- Bottom belt wheel (162)
- Flexible ribs (351, 371)

Weight (421)
pp; 16 DwgNo 1/4
Title Terms: AUTOMATIC; OPEN; MECHANISM; UMBRELLA
Derwent Class: P24
International Patent Class (Main): **A45B-025/14**
International Patent Class (Additional): **A45B-019/04 ; A45B-019/10**
File Segment: EngPI

11/5/22 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012713777 **Image available**
WPI Acc No: 1999-519889/199944
XRPX Acc No: N99-386714

Umbrella cord reeling mechanism

Patent Assignee: MA M J S (MAMJ-I); MA J (MAJJ-I)
Inventor: MA J
Number of Countries: 002 Number of Patents: 002
Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|---------------|------|----------|----------|
| DE 29906520 | U1 | 19990909 | DE 99U2006520 | U | 19990413 | 199944 B |
| US 6196489 | B1 | 20010306 | US 99246939 | A | 19990209 | 200115 N |

Priority Applications (No Type Date): DE 99U2006520 U 19990413; US 99246939
A 19990209

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-------------|------|-----|----|-------------|--------------|
| DE 29906520 | U1 | | 17 | A45B-023/00 | |
| US 6196489 | B1 | | | A45B-025/14 | |

Abstract (Basic): DE 29906520 U1

NOVELTY - The commercially available large umbrella has a mast section (10) on which the cord reeling mechanism (11) is arranged. The mechanism is provided with a crank (15). A cord (12) is guided through the mast and is wound around the reeling mechanism. The cord moves a sleeve (13) along the mast. The sleeve has several umbrella struts (14) attached to it, which are activated by moving the sleeve. The crank can be **rotated** in the opposite direction to **open** the **umbrella**.

USE - Especially for large umbrellas used on e.g. the beach for shade.

ADVANTAGE - Prevents the umbrella from being opened too far and also prevents the umbrella from accidentally closing shut.

DESCRIPTION OF DRAWING(S) - The figure shows the opened umbrella.

Mast (10)

Cord reeling mechanism (11)

Cord (12)

Sleeve (13)

Umbrella struts (14)

pp; 17 DwgNo 1/6

Title Terms: UMBRELLA; CORD; REEL; MECHANISM
Derwent Class: P24; Q36
International Patent Class (Main): **A45B-023/00 ; A45B-025/14**
International Patent Class (Additional): **A45B-025/08 ; B65H-075/34**
File Segment: EngPI

11/5/23 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012686772 **Image available**
WPI Acc No: 1999-492881/199941
XREF Acc No: N99-367058

Side support for large umbrella used in e.g. patio, outdoor restaurant

Patent Assignee: HARBAUGH K A (HARB-I)

Inventor: HARBAUGH K A

Number of Countries: 083 Number of Patents: 005

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|--------------|------|----------|----------|
| US 5937882 | A | 19990817 | US 9857724 | A | 19980409 | 199941 B |
| WO 9952394 | A1 | 19991021 | WO 98US17097 | A | 19980818 | 199952 |
| AU 9889124 | A | 19991101 | AU 9889124 | A | 19980818 | 200013 |
| EP 1069844 | A1 | 20010124 | EP 98940967 | A | 19980818 | 200107 |
| | | | WO 98US17097 | A | 19980818 | |
| CN 1291086 | A | 20010411 | CN 98813958 | A | 19980818 | 200140 |

Priority Applications (No Type Date): US 9857724 A 19980409

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|-----------|------|--------|----------|--------------|
|-----------|------|--------|----------|--------------|

| | | | | |
|------------|---|----|-------------|--|
| US 5937882 | A | 10 | A45B-011/00 | |
|------------|---|----|-------------|--|

| | | | | |
|------------|------|--|-------------|--|
| WO 9952394 | A1 E | | A45B-011/00 | |
|------------|------|--|-------------|--|

Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU
CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR
LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM
TR TT UA UG UZ VN YU ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

| | | | | |
|------------|---|--|-------------|----------------------------|
| AU 9889124 | A | | A45B-011/00 | Based on patent WO 9952394 |
|------------|---|--|-------------|----------------------------|

| | | | | |
|------------|------|--|-------------|----------------------------|
| EP 1069844 | A1 E | | A45B-011/00 | Based on patent WO 9952394 |
|------------|------|--|-------------|----------------------------|

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI
LU MC NL PT SE

| | | | | |
|------------|---|--|-------------|--|
| CN 1291086 | A | | A45B-011/00 | |
|------------|---|--|-------------|--|

Abstract (Basic): US 5937882 A

NOVELTY - A crank (78), rotatably set in a housing (37) at the middle of a mast (20), selectively rotates a hub (38) around which a line (60) coupling the runner (72) of the stretchers (74) of an **umbrella canopy** (12) is wound. The **umbrella canopy** is **opened** or shut by **rotating** the crank to wind or release the line for operating the runner causing the movement of the stretchers and umbrella ribs (75).

DETAILED DESCRIPTION - The mast is located alongside of the umbrella canopy, for supporting an umbrella. The umbrella canopy includes a radial arm (54) connected to one end of the central region (55) of the umbrella and pivotably attached to one side of a collar (43). A brace (56) is pivotably attached to the arm and extended to the top of the mast. Pulleys (62, 64, 68) for sliding movement of the line, are individually provided to the top of the mast, to the collar and to the inner vicinity of the central region of the umbrella canopy.

USE - For large umbrella used in e.g. patio, outdoor restaurant.

ADVANTAGE - Simplifies assembly and disassembly of umbrella without requiring great physical strength of individual operating the umbrella. Simplifies control of the opening and tilting of the umbrella in the side of the side support. Enables effective arrangement of furniture or table in proper place under the umbrella without obstruction at the center since umbrella support is placed alongside.

DESCRIPTION OF DRAWING(S) - The figure shows the partial schematic view of the construction and operating mechanism of the umbrella with side support alongside.

Umbrella canopy (12)

Mast (20)
Housing (37)
Hub (38)
Collar (43)
Arm (54)
Central region (55)
Brace (56)
Line (60)
Pulleys (62,64,68)
Runner (72)
Stretchers (74)
Umbrella ribs (75)
Crank (78)
pp; 10 DwgNo 2/7

Title Terms: SIDE; SUPPORT; UMBRELLA; PATIO; OUTDOOR; RESTAURANT
Derwent Class: P24
International Patent Class (Main): **A45B-011/00**
File Segment: EngPI

11/5/24 (Item 11 from file: 350)

DIALOG(R) File 350:Derwent WPIX
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012376062 **Image available**
WPI Acc No: 1999-182169/199916
XRPX Acc No: N99-133691

Support for garden umbrellas, parasols, etc.

Patent Assignee: SOBEK ING GMBH WERNER (SOBE-N); TRANSSOLAR ENERGIETECHNIK GMBH (TRAN-N); SOBEK ING GMBH & CO KG WERNER (SOBE-N)

Inventor: BAUMUELLER D; SCHULER M; SOBEK W

Number of Countries: 025 Number of Patents: 007

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|---------------|------|----------|---------------|------|----------|----------|
| DE 19812553 | C1 | 19990325 | DE 1012553 | A | 19980321 | 199916 B |
| WO 9948399 | A1 | 19990930 | WO 99EP1668 | A | 19990313 | 199948 |
| EP 1065955 | A1 | 20010110 | EP 99907631 | A | 19990313 | 200103 |
| | | | WO 99EP1668 | A | 19990313 | |
| JP 2002507440 | W | 20020312 | WO 99EP1668 | A | 19990313 | 200220 |
| | | | JP 2000537462 | A | 19990313 | |
| EP 1065955 | B1 | 20020821 | EP 99907631 | A | 19990313 | 200262 |
| | | | WO 99EP1668 | A | 19990313 | |
| DE 59902410 | G | 20020926 | DE 502410 | A | 19990313 | 200271 |
| | | | EP 99907631 | A | 19990313 | |
| | | | WO 99EP1668 | A | 19990313 | |
| ES 2182491 | T3 | 20030301 | EP 99907631 | A | 19990313 | 200322 |

Priority Applications (No Type Date): DE 1012553 A 19980321

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 19812553 C1 10 A45B-023/00

WO 9948399 A1 G A45B-019/02

Designated States (National): CA CN ID JP KR SG US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE

EP 1065955 A1 G A45B-019/02 Based on patent WO 9948399

Designated States (Regional): AT DE ES FR GR IT

JP 2002507440 W 27 A45B-019/02 Based on patent WO 9948399

EP 1065955 B1 G A45B-019/02 Based on patent WO 9948399

Designated States (Regional): AT DE ES FR GR IT

DE 59902410 G A45B-019/02 Based on patent EP 1065955

ES 2182491 T3

A45B-019/02

Based on patent WO 9948399

Based on patent EP 1065955

Abstract (Basic): DE 19812553 C1

NOVELTY - The umbrella (10) has a shaft (12) and a canopy (11) which is rotatable on the shaft and driven by a motor. The **canopy** has a flexible tension resistant **membrane** (21) with a circular shape. The **canopy** is deployed by **rotation** around the shaft causing **centrifugal expansion** and locking in a horizontal position.

USE - For garden umbrellas or parasols

ADVANTAGE - Allows simple automatic deployment and retraction of canopy.

DESCRIPTION OF DRAWING(S) - Drawing shows side view of canopy

Umbrella assembly (10)

Membrane (21)

Canopy (21)

Drive (15)

pp; 10 DwgNo 1B/11

Title Terms: SUPPORT; GARDEN; UMBRELLA

Derwent Class: P24

International Patent Class (Main): A45B-019/02 ; A45B-023/00

International Patent Class (Additional): A45B-025/14

File Segment: EngPI

11/5/25 (Item 12 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011843268 **Image available**

WPI Acc No: 1998-260178/199823

XRPX Acc No: N98-205116

Automatic umbrella -- comprises central shaft, rib assembly, opening spring, control device and drag means

Patent Assignee: FU TAI UMBRELLA WORKS LTD (FUTA-N)

Inventor: CHANG J; LIN C

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| US 5740823 | A | 19980421 | US 97839492 | A | 19970414 | 199823 B |

Priority Applications (No Type Date): US 97839492 A 19970414

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|------------|------|--------|-------------|--------------|
| US 5740823 | A | 8 | A45B-025/14 | |

Abstract (Basic): US 5740823 A

An automatic umbrella comprising: (a) a central shaft having a lower tube, an upper tube with a lower portion telescopically slidably engageable with the lower tube, a grip secured to the lower tube, an inner block secured to a top end portion of the upper shaft and an inner sleeve secured to and protruding downwardly from the inner block; (b) a rib assembly having at least a top rib pivotally secured to an upper notch fixed on a top end of the central shaft, and a stretcher rib pivotally secured between the top rib and a lower runner slidably held on the central shaft; (c) an opening spring retained in the upper and lower tubes, having an upper spring end of the opening spring retained on the inner block and disposed about an upper sleeve portion of the inner sleeve; (d) a control device built in the grip for controlling the opening of the umbrella; and (e)

a drag device normally retained between a lower portion of the lower tube and the lower runner, and operatively pulled as tensioned by the opening spring for extending the rib assembly when opening the umbrella. The drag device includes: a rod disposed within the opening spring; a rope having an inner rope end secured to an upper rod portion of the rod by a coupling having a lowermost tapered coupling portion of the coupling engageable with a lower sleeve portion tapered downwardly from the inner sleeve when **opening the umbrella**; with the rope wound about a roller **rotatably** mounted in a top portion of the central shaft to allow an outer rope end of the rope to be fixed in the lower runner, whereby upon opening of the umbrella, the rope and the rod will be stably extended as tensioned by the opening spring within the central shaft.

The opening spring having a lower spring end retained on a plug which is fixed in a lower portion of the central shaft. The rod of the drag device having a lower rod portion secured into the plug by a pin, whereby upon extending of the opening spring to open the umbrella, the upper tube will be extended above, without being separated from, the lower tube as being limited by the lower rod portion in the plug and in the lower tube.

The control device includes: a push button slidably held in a button hole in the grip having an inward extension protruding inwardly from the push button; and a catch pivotally secured in the grip having a hook portion protruding outwardly from the catch through the lower tube to be engageable with a hook hole formed in a lower portion of the upper tube when folding the umbrella, and a catch spring retained between the hook portion and an inside wall of the lower portion of the lower tube for normally urging the hook portion outwardly ready for engaging the hook hole of the upper tube;

with the hook portion facing the inward extension of the push button, whereby upon depression of the push button and the inward extension, the hook portion will be inwardly depressed to disengage the hook hole of the upper tube for opening the umbrella when opened.

ADVANTAGE - The umbrella is lightweight.

Dwg.2,5/9

Title Terms: AUTOMATIC; UMBRELLA; COMPRISE; CENTRAL; SHAFT; RIB; ASSEMBLE;
OPEN; SPRING; CONTROL; DEVICE; DRAG

Derwent Class: P24

International Patent Class (Main): **A45B-025/14**

File Segment: EngPI

11/5/26 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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011472683 **Image available**

WPI Acc No: 1997-450590/199742

XRPX Acc No: N97-375403

Hollow tube with open end holding vertical sunshade mast in ground - has external thread starting from pointed bottom end to allow tube to be screwed into ground using removable or collapsible handle at open end

Patent Assignee: BREITER T (BREI-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|---------------|------|----------|----------|
| DE 29713732 | U1 | 19970918 | DE 97U2013732 | U | 19970801 | 199742 B |

Priority Applications (No Type Date): DE 97U2013732 U 19970801

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
|-----------|------|-----|----|----------|--------------|

DE 29713732 U1 10 A45B-023/00

Abstract (Basic): DE 29713732 U

The outside of the tube (1) has threading (4) in at least the area (3) at the opposite end of the tube to the open end (2). Preferably the threading is pointed or flat and extends along 20-90 % of the tube. The opposite end of the tube to the open end has a sharp point.

The tube is made from plastics or metal. Holes (5) are drilled through the tube close to the open end and a rod (6) is pushed through the holes for use as a handle for **rotating** the tube. Alternatively the **open** end of the tube contains a collapsible handle. A **device** for clamping the tube against the mast is also provided.

USE/ADVANTAGE - Sunshade is anchored without heavy weight, can be easily carried, and since it is screwed into the ground, no hammer is needed. The handle may also be removable and is readily accessible for when it is required for screwing in the tube.

Dwg.2/2

Title Terms: HOLLOW; TUBE; OPEN; END; HOLD; VERTICAL; SUNSHADE; MAST; GROUND; EXTERNAL; THREAD; START; POINT; BOTTOM; END; ALLOW; TUBE; SCREW; GROUND; REMOVE; COLLAPSE; HANDLE; OPEN; END

Derwent Class: P24

International Patent Class (Main): **A45B-023/00**

File Segment: EngPI

11/5/27 (Item 14 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

011250474 **Image available**

WPI Acc No: 1997-228377/199721

XRPX Acc No: N97-188782

Umbrella with restricted relative rotation between spoke cap and shaft - uses cap and shaft with specially shaped inside and outside contour cross sections to enable them to lock together

Patent Assignee: GOEBEL GMBH & CO EBERHARD (GOEB-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|---------------|------|----------|----------|
| DE 29703486 | U1 | 19970410 | DE 97U2003486 | U | 19970227 | 199721 B |

Priority Applications (No Type Date): DE 97U2003486 U 19970227

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-------------|------|-----|----|-------------|--------------|
| DE 29703486 | U1 | | 8 | A45B-025/14 | |

Abstract (Basic): DE 29703486 U

Spoke cap (5) can be moved axially along umbrella shaft (2). Cross-sections for inside (9) of spoke cap and outside (10) of umbrella shaft (2) are designed to provide matching opposite surfaces in cap and shaft for joining them together by lock-and-key principle and preventing rotation.

Preferably shaft comprises cylinder flattened on one side to give flat guide surface, which is inserted into spoke cap with similar flat guide surface. Button (8) for locking spoke cap into position is integrated into cap and contains ring for providing cap with inside cross-section contours that enable it to fit over shaft.

USE/ADVANTAGE - Used as **parasol** or **umbrella**. Damage caused by relative **rotation** between spoke cap and **umbrella** shaft when **umbrella** is **opened** or closed, is reduced.

Dwg.1/4

Title Terms: UMBRELLA; RESTRICT; RELATIVE; ROTATING; SPOKE; CAP; SHAFT; CAP
; SHAFT; SHAPE; CONTOUR; CROSS; SECTION; ENABLE; LOCK
Derwent Class: P24
International Patent Class (Main): **A45B-025/14**
International Patent Class (Additional): **A45B-025/06**
File Segment: EngPI

11/5/28 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

011183073 **Image available**
WPI Acc No: 1997-160998/199715
XRPX Acc No: N97-133019

**Umbrella storage appts. installed on entrance of e.g. hotel, shop - has
opening operation unit turned by end of umbrella to open insertion
opening of storage bag**

Patent Assignee: MURAHARU SEISAKUSHO KK (MURA-N); SHINKURA KEIRYOKI KK
(SHIN-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| JP 9030518 | A | 19970204 | JP 95183877 | A | 19950720 | 199715 B |

Priority Applications (No Type Date): JP 95183877 A 19950720

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|------------|------|--------|-------------|--------------|
| JP 9030518 | A | 17 | B65B-067/12 | |

Abstract (Basic): JP 9030518 A

The appts. receives an umbrella (U) through a storage bag (4)
loaded into an appts. body (1). An opening operation unit that **opens**
an insertion **opening** (4a) of the storage bag is **rotatably** provided
in the appts. body. The **opening** operation unit is turned by the end
of the **umbrella** to open the insertion opening of the storage bag.

ADVANTAGE - Easily stores umbrella by one touch without using motor
to open insertion opening of storage bag. Reduces mfr. cost and does
not require power supply.

Dwg.2/34

Title Terms: UMBRELLA; STORAGE; APPARATUS; INSTALLATION; ENTER; HOTEL; SHOP
; OPEN; OPERATE; UNIT; TURN; END; UMBRELLA; OPEN; INSERT; OPEN; STORAGE;
BAG

Derwent Class: P24; Q31

International Patent Class (Main): B65B-067/12

International Patent Class (Additional): **A45B-025/24**

File Segment: EngPI

11/5/29 (Item 16 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

010797646 **Image available**
WPI Acc No: 1996-294599/199630
XRAM Acc No: C96-093707
XRPX Acc No: N96-247825

**Umbrella used together with frame for drying clothes - comprises rotary
shaft, main bone members, sub-bone members, waterproof sheet which is**

openable and closable, etc.

Patent Assignee: IIDA Y (IIDA-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| JP 8126511 | A | 19960521 | JP 94290466 | A | 19941031 | 199630 B |

Priority Applications (No Type Date): JP 94290466 A 19941031

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|------------|------|-----|----|-------------|--------------|
| JP 8126511 | A | | 5 | A45B-023/00 | |

Abstract (Basic): JP 8126511 A

The umbrella, used together with a frame for drying clothes, comprises a rotary shaft, several main bone members, sub-bone members, a waterproof sheet which is **opened** and closed by **rotation** of each main bone member, an **open** sheet holding member, a hanging member attached to an **umbrella** holding member, and a hook member which is hung over a frame for drying clothes.

ADVANTAGE - Clothes can be hung from a frame for drying clothes and covered with a waterproof sheet.

Dwg.1/3

Title Terms: UMBRELLA; FRAME; DRY; CLOTHING; COMPRISE; ROTATING; SHAFT; MAIN; BONE; MEMBER; SUB; BONE; MEMBER; WATERPROOF; SHEET; OPEN; CLOSE

Derwent Class: F07; P24

International Patent Class (Main): **A45B-023/00**

International Patent Class (Additional): **A45B-003/06** ; D06F-057/00

File Segment: CPI; EngPI

11/5/30 (Item 17 from file: 350)

DIALOG(R) File 350:Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

009628956 **Image available**

WPI Acc No: 1993-322505/199341

XRPX Acc No: N93-248528

Single-handed, opening and closing, operated umbrella - has groove extended lengthwise to restrict slider movement and includes handle comprising inner and outer shafts

Patent Assignee: HISAO N (HISA-I); NAGAI H (NAGA-I); WAKABAYASHI & CO LTD (WAKA-N); YANG C (YANG-I)

Inventor: HISAO N; HISAO Y; NAGAI H; YANG C

Number of Countries: 003 Number of Patents: 005

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|-------------|------|----------|----------|
| EP 565293 | A1 | 19931013 | EP 93302496 | A | 19930330 | 199341 B |
| US 5309933 | A | 19940510 | US 9336181 | A | 19930323 | 199418 |
| EP 565293 | B1 | 19960619 | EP 93302496 | A | 19930330 | 199629 |
| DE 69303208 | E | 19960725 | DE 603208 | A | 19930330 | 199635 |
| | | | EP 93302496 | A | 19930330 | |
| CN 1080147 | A | 19940105 | CN 93103601 | A | 19930330 | 199712 |

Priority Applications (No Type Date): JP 92U26103 U 19920330; JP 92U26102 U 19920330

Cited Patents: EP 156045; EP 525227; FR 2053111; FR 2663822; GB 2221615; GB 2240038; US 3746025; US 4041966; US 5020558

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|-------------|--------------|
| EP 565293 | A1 | E | 16 | A45B-025/16 | |

US 5309933 A 13 A45B-025/14
EP 565293 B1 E 16 A45B-025/16
DE 69303208 E A45B-025/16 Based on patent EP 565293
CN 1080147 A A45B-025/16

Abstract (Basic): EP 565293 A

An umbrella that can be opened, or closed, by operative one-handed use. The handle consists of an inner- (10) , and an outer-shaft (20). The inner-shaft has a U-groove (11) extending lengthwise. the outer-shaft has a convex block (22) inside a lower nest (23) that is mounted upon the top of the outer-shaft.

Engagement of the convex block within the U-groove means that neither shaft is able to turn, twist nor displace relative to each other. Within a plastic sleeve (33) that is able to slide on the upper-end of the inner-shaft a spring (32) is mounted to appreciably reduce any frictional forces. This arrangement also prevents any grating noise and negates corrosive scraping actions.

Dwg.1/10

Title Terms: SINGLE; HAND; OPEN; CLOSE; OPERATE; UMBRELLA; GROOVE; EXTEND; LENGTHWISE; RESTRICT; SLIDE; MOVEMENT; HANDLE; COMPRISE; INNER; OUTER; SHAFT

Derwent Class: P24

International Patent Class (Main): A45B-025/14 ; A45B-025/16

File Segment: EngPI

11/5/31 (Item 18 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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008872087 **Image available**

WPI Acc No: 1991-376114/199151

XRPX Acc No: N91-287875

Disposable umbrella - has three dowels mounted perpendicular through central staff and plastics cap to act as stop for fixed upper collar, supporting fixed struts

Patent Assignee: FLANAGAN M L (FLAN-I)

Inventor: FLANAGAN M L

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| US 5069237 | A | 19911203 | US 91677311 | A | 19910329 | 199151 B |

Priority Applications (No Type Date): US 91677311 A 19910329; US 90482636 A 19900221

Abstract (Basic): US 5069237 A

The disposable umbrella appts. is made of thermoplastic and inexpensive materials and has a central staff made of a length of plastic pipe. Three short plastic dowels are mounted perpendicular through the staff and a plastic cap mounts to the top of the pipe to act as a stop for a fixed upper collar supporting the fixed struts of the umbrella and as a latch for a slidable collar carrying the collapsing umbrella struts. The slidable collar has an opening through it and slides along the staff pipe.

The latching for the umbrella uses a pair of grooves along the inside of the opening the slidable collar so that the collar can slide over one of the plastic dowels protruding from the staff and abut against a second dowel protruding from the staff and then rotated between the two dowels to latch the collars and struts in position to hold the **umbrella** in an **open** position. The collar is thus **rotated**

to misalign the grooves w.r.t. the dowel on either side of it to prevent movement past the dowels in either direction. The waterproof covering for the umbrella may be thermoplastic sheet heat sealed in place on the struts.

Dwg.1/6

Title Terms: DISPOSABLE; UMBRELLA; THREE; DOWEL; MOUNT; PERPENDICULAR; THROUGH; CENTRAL; STAFF; PLASTICS; CAP; ACT; STOP; FIX; UPPER; COLLAR; SUPPORT; FIX; STRUT

Derwent Class: P24

International Patent Class (Additional): A45B-013/00

File Segment: EngPI

11/5/32 (Item 19 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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008073827 **Image available**

WPI Acc No: 1989-338939/198946

XRPX Acc No: N89-257968

Wind resistive umbrella - has handle gripping attached staff with ribs and rotatably joined strut

Patent Assignee: WILLIAMS C J (WILL-I)

Inventor: WILLIAMS C J

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|------|----------|
| US 4865063 | A | 19890912 | | | | 198946 B |

Priority Applications (No Type Date): US 88241334 A 19880905

Abstract (Basic): US 4865063 A

The umbrella has a handle (20), for gripping, attached to a staff (22) and a number of ribs (26) pivotally connected to the staff, each having a strut (28) **rotatably** jointed therebetween. A **canopy** (32) having an **opening** (34) in the center covers the ribs, also a cover (36), larger in diameter than the opening, overlays the canopy creating a water shedding shield. A movable ring (38) attaches the cover to the staff allowing vertical movement of the cover.

The cover is reinforced with straps (40) and the inside of the canopy is also reinforced with at least a pair of radial straps (46). The umbrella relieves the air inside when the pressure differential between the inside and outside is increased due to the wind billowing the cover upwardly on the ring, exposing a series of vents between the ribs at the interface of the cover to the canopy expelling the air readily thereby protecting the umbrella from turning inside out. (6pp Dwg.No.3/5

Title Terms: WIND; RESISTOR; UMBRELLA; HANDLE; GRIP; ATTACH; STAFF; RIB; ROTATING; JOIN; STRUT

Derwent Class: P24

International Patent Class (Additional): A45B-025/20

File Segment: EngPI

11/5/33 (Item 20 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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007759530 **Image available**

WPI Acc No: 1989-024642/198904

XRPX Acc No: N89-018720

Sun shade and cover - consists of support with pretensioned membrane over it

Patent Assignee: RASCH B (RASC-I)

Inventor: BRADATSCH J; OTTO F; WALZ A; FREI O; RASCH B

Number of Countries: 012 Number of Patents: 006

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| DE 3721830 | A | 19890112 | DE 3721830 | A | 19870702 | 198904 B |
| WO 8900225 | A | 19890112 | WO 88EP561 | A | 19880625 | 198905 |
| EP 365572 | A | 19900502 | EP 88905776 | A | 19880625 | 199018 |
| EP 365572 | B1 | 19921104 | EP 88905776 | A | 19880625 | 199245 |
| | | | WO 88EP561 | A | 19880625 | |
| DE 3875735 | G | 19921210 | DE 3875735 | A | 19880625 | 199251 |
| | | | EP 88905776 | A | 19880625 | |
| | | | WO 88EP561 | A | 19880625 | |
| DE 3721830 | C2 | 19980709 | DE 3721830 | A | 19870702 | 199831 |

Priority Applications (No Type Date): DE 3721830 A 19870702

Cited Patents: NoSR.Pub; 01Jnl.Ref; FR 2589184; FR 811716

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|-----------|------|-----|----|----------|--------------|
|-----------|------|-----|----|----------|--------------|

| | | | | | |
|------------|---|--|----|--|--|
| DE 3721830 | A | | 27 | | |
|------------|---|--|----|--|--|

| | | | | | |
|------------|---|---|--|--|--|
| WO 8900225 | A | G | | | |
|------------|---|---|--|--|--|

Designated States (National): JP

Designated States (Regional): AT BE CH DE FR GB IT LU NL SE

| | | | | | |
|-----------|---|--|--|--|--|
| EP 365572 | A | | | | |
|-----------|---|--|--|--|--|

Designated States (Regional): CH DE FR GB IT LI

| | | | | | |
|-----------|----|---|---|-------------|----------------------------|
| EP 365572 | B1 | G | 4 | E04B-007/16 | Based on patent WO 8900225 |
|-----------|----|---|---|-------------|----------------------------|

Designated States (Regional): CH DE FR GB IT LI

| | | | | | |
|------------|---|--|--|-------------|---------------------------|
| DE 3875735 | G | | | E04B-007/16 | Based on patent EP 365572 |
|------------|---|--|--|-------------|---------------------------|

| | | | | | |
|------------|----|--|--|-------------|--|
| DE 3721830 | C2 | | | A45B-023/00 | |
|------------|----|--|--|-------------|--|

Abstract (Basic): DE 3721830 A

The shade (1) has at least one cover (2) on a support (3) on which is a pretensioned membrane (10) with attachment (6) at points (8,9) holding the membrane (10) on the support (3) in a crown arrangement.

The membrane (10) is positioned on a centre (13) around a rotational surface (12). The membrane attachment points (8,9) are positioned at the corners (16) and edges (15) of a polygon.

USE/ADVANTAGE - The shape of the shade can be adapted to give shade in different areas.

1/26

Title Terms: SUN; SHADE; COVER; CONSIST; SUPPORT; PRETENSIONED; MEMBRANE

Derwent Class: P24; Q43; Q45

International Patent Class (Main): A45B-023/00 ; E04B-007/16

International Patent Class (Additional): A45B-019/00 ; A45B-025/10 ;

A45B-025/14 ; A45B-025/24 ; E04F-010/04

File Segment: EngPI

11/5/34 (Item 21 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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007463584 **Image available**

WPI Acc No: 1988-097518/198814

XRPX Acc No: N88-073673

Folding umbrella - has frame made from spirally wound conically shaped spring tape whose one end is secured to cupola and other to outer cup

Patent Assignee: SEREBRYAKOV A D (SERE-I)

Inventor: SEKEBRAYAK A D

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| SU 1335252 | A | 19870907 | SU 4060789 | A | 19860423 | 198814 B |

Priority Applications (No Type Date): SU 4060789 A 19860423

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|------------|------|-----|----|----------|--------------|
| SU 1335252 | A | | 4 | | |

Abstract (Basic): SU 1335252 A

Folding umbrella includes frame connected to fabric cupola (1) and to central rod (2) by means of the coaxially positioned cups (3) and (4) which are turned bottoms up. Frame is made in the form of a spirally wound, conical form, tape spring (5). One end of the spring is hinged to cupola (1) and the other (7) to the outer cup (3). The latter can be **rotated** and fixed relative to the inner cup. To **open** the **umbrella**, telescopic rod (2) is pulled out and locking pawl pressed to disengage it from cup (3) teeth (9). Spring (5) is extended and stretches the cupola. Umbrella is folded by holding rod with one hand and rotating cup (3) together with its hinge with the other. Cup winds the spring whilst pawl skids on teeth (9) until the cupola is fully closed. ADVANTAGE - Folding umbrella is easier to use. Bul. 32/30.8.87 (4pp Dwg.No.3)

Title Terms: FOLD; UMBRELLA; FRAME; MADE; SPIRAL; WOUND; CONICAL; SHAPE; SPRING; TAPE; ONE; END; SECURE; CUPOLA; OUTER; CUP

Derwent Class: P24

International Patent Class (Additional): **A45B-019/00**

File Segment: EngPI

11/5/35 (Item 22 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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004821960

WPI Acc No: 1986-325301/198649

XRPX Acc No: N86-242586

Rotatable shade garden umbrella - includes resilient cam button protruding through opening adjacent annular supporting shaft sections

Patent Assignee: FINKEL OUTDOOR PROD INC (FINK)

Inventor: KILLIAN E; REDL S

Number of Countries: 002 Number of Patents: 002

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| US 4622987 | A | 19861118 | US 85744241 | A | 19850613 | 198649 B |
| CA 1255185 | A | 19890606 | | | | 198927 |

Priority Applications (No Type Date): US 85744241 A 19850613

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|------------|------|-----|----|----------|--------------|
| US 4622987 | A | | 7 | | |

Abstract (Basic): US 4622987 A

The shade umbrella is tiltable about a horizontal axis and can be rotated about a vertical axis. A resiliently placed cam button protrudes through an opening adjacent each end of two annularly mated shaft portions supporting the umbrella.

The button can be manually depressed to release the outer shaft, permitting removal of the **umbrella** or **rotation** for shaft control. A series of **openings** around the circumference of the outer shaft permit

indexing of the shade control. The outer surface of the cam button is shaped to permit easy interconnection of the two shaft portions and secure locking together.

USE - Garden umbrella capable of tracking the run to suit the time of day and the season. (7pp Dwg.No.2/4

Title Terms: ROTATING; SHADE; GARDEN; UMBRELLA; RESILIENT; CAM; BUTTON; PROTRUDE; THROUGH; OPEN; ADJACENT; ANNULAR; SUPPORT; SHAFT; SECTION

Derwent Class: P24

International Patent Class (Additional): **A45B-011/00**

File Segment: EngPI

11/5/36 (Item 23 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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004080676

WPI Acc No: 1984-226217/198437

XRPX Acc No: N84-169028

Garden umbrella with vertical support column - has easily opened off-centre rotating umbrella cover

Patent Assignee: KORTENBACH & RAUH KG (KORT-N)

Inventor: SEIDEL J

Number of Countries: 001 Number of Patents: 002

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|------------|------|----------|-------------|------|----------|----------|
| DE 3307718 | A | 19840906 | DE 3307718 | A | 19830304 | 198437 B |
| DE 3307718 | C | 19880204 | | | | 198805 |

Priority Applications (No Type Date): DE 3307718 A 19830304

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
|------------|------|--------|----------|--------------|
| DE 3307718 | A | 20 | | |

Abstract (Basic): DE 3307718 A

The garden umbrella or similar has an upright column support for a cover which can be moved into an eccentric suspended position by means of a double-armed jib. A parallelogram rod associated with this jib is provided to control the tilting movement of the short shaft which supports the roof.

Starting from a crank rod this parallelogram rod has an articulated arm attached to the crank rod and a thrust rod running parallel to the jib and engaging for rotary movement on the short shaft. For opening and closing the roof a part of the draw cable parallel to the jib in conjunction with a draw damper attached to the upright column forms a draw section which alters with the tilting thrust movement of the jib.

ADVANTAGE - Easier opening and closing of the umbrella operated from a point on the actuating arm of the jib.

0/6

Title Terms: GARDEN; UMBRELLA; VERTICAL; SUPPORT; COLUMN; EASY; OPEN; CENTRE; ROTATING; UMBRELLA; COVER

Derwent Class: P24

International Patent Class (Additional): **A45B-017/00 ; A45B-023/00 ; A45B-025/02**

File Segment: EngPI

| Set | Items | Description |
|-----|--------|---|
| S1 | 9 | AU=(SOBEK W? OR SOBEK, W?) |
| S2 | 915636 | UMBRELLA? OR CANOPY OR CANOPIES OR DEVICE? OR MEMBRANE? OR PARASOL? |
| S3 | 450521 | ROTAT? OR CENTRIFUGAL? OR CIRCULAR(2N) (MOVE? OR MOTION?) |
| S4 | 689057 | OPEN? OR EXPAND? OR EXPANSION? |
| S5 | 273740 | SHAFT OR STEM OR DRIVER? |
| S6 | 24148 | S3(5N)S4 |
| S7 | 1075 | S6(7N)S2 |
| S8 | 128 | S7(15N)S5 |
| S9 | 3 | S8 AND IC=A45B? |
| S10 | 8 | S7 AND IC=A45B? |
| S11 | 15 | S6 AND IC=A45B? |

? show file

File 348:EUROPEAN PATENTS 1978-2003/May W04

(c) 2003 European Patent Office

File 349:PCT FULLTEXT 1979-2002/UB=20030522,UT=20030515

(c) 2003 WIPO/Univentio

11/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

01150451

A device for automatically receiving an umbrella in a bag
Vorrichtung zum automatischen Aufnehmen eines Schirms in eine Hulle
Dispositif pour ranger automatiquement un parapluie dans un sac

PATENT ASSIGNEE:

KABUSHIKI KAISHA MURAHARU SEISAKUSHO, (1824670), 17-19, Onodai 5-chome,
Sagamihara-shi, Kanagawa 229, (JP), (Applicant designated States: all)
NIIKURA SCALES CO., LTD., (1824690), 2, Kanda-Tsukasacho 2-chome,
Chiyoda-ku, Tokyo 101, (JP), (Applicant designated States: all)
KABUSHIKI KAISHA YAKULT HONSHA, (316162), 1-19, Higashi Shinbashi 1-chome
, Minato-ku Tokyo, (JP), (Applicant designated States: all)

INVENTOR:

Murakami, Toshiyuki, 17-19, Onodai 5-chome, Sagamihara-shi, Kanagawa 229,
(JP)

LEGAL REPRESENTATIVE:

Samuels, Adrian James (92711), Frank B. Dehn & Co., 179 Queen Victoria
Street, London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 1002726 A2 000524 (Basic).
EP 1002726 A3 000719

APPLICATION (CC, No, Date): EP 200112 950719;

DESIGNATED STATES: DE; ES; FR; GB; IT; NL

RELATED PARENT NUMBER(S) - PN (AN):

EP 781708 (EP 95925992)

INTERNATIONAL PATENT CLASS: B65B-043/14; **A45B-025/24**

ABSTRACT WORD COUNT: 79

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS A | (English) | 200021 | 236 |
| SPEC A | (English) | 200021 | 7945 |
| Total word count - document A | | | 8181 |
| Total word count - document B | | | 0 |
| Total word count - documents A + B | | | 8181 |

...INTERNATIONAL PATENT CLASS: **A45B-025/24**

...ABSTRACT comprises a main body (1) containing at least one said
receiving bag (4) and a **rotatable** bag- **opening** means (20) for **opening**
an insertion **opening** (4a) of said bag when **rotated** by said umbrella
(U). The bag-opening means (20) is mounted to said body (1...

11/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

01150450

A device for automatically receiving an umbrella in a bag
Vorrichtung zum automatischen Aufnehmen eines Schirms in eine Hulle
Dispositif pour ranger automatiquement un parapluie dans un sac

PATENT ASSIGNEE:

KABUSHIKI KAISHA MURAHARU SEISAKUSHO, (1824670), 17-19, Onodai 5-chome,

Sagamihara-shi, Kanagawa 229, (JP), (Proprietor designated states: all)
NIIKURA SCALES CO., LTD., (1824690), 2, Kanda-Tsukasacho 2-chome,
Chiyoda-ku, Tokyo 101, (JP), (Proprietor designated states: all)

INVENTOR:

Murakami, Toshiyuki, 17-19, Onodai 5-chome, Sagamihara-shi, Kanagawa 229,
(JP)

LEGAL REPRESENTATIVE:

Samuels, Adrian James et al (92711), Frank B. Dehn & Co., 179 Queen
Victoria Street, London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 1002725 A2 000524 (Basic)
EP 1002725 A3 000719
EP 1002725 B1 030115

APPLICATION (CC, No, Date): EP 2000200111 950719;

DESIGNATED STATES: DE; ES; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: LT; LV; SI

RELATED PARENT NUMBER(S) - PN (AN):

EP 781708 (EP 95925992)

INTERNATIONAL PATENT CLASS: B65B-043/14; **A45B-025/24**

ABSTRACT WORD COUNT: 176

NOTE:

Figure number on first page: 23

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS A | (English) | 200021 | 246 |
| CLAIMS B | (English) | 200303 | 273 |
| CLAIMS B | (German) | 200303 | 277 |
| CLAIMS B | (French) | 200303 | 300 |
| SPEC A | (English) | 200021 | 7946 |
| SPEC B | (English) | 200303 | 4497 |
| Total word count - document A | | | 8193 |
| Total word count - document B | | | 5347 |
| Total word count - documents A + B | | | 13540 |

...INTERNATIONAL PATENT CLASS: **A45B-025/24**

...ABSTRACT comprises a main body (1) containing at least one said
receiving bag (4) and a **rotatable** bag- **opening** means (102, 104) for
opening an insertion **opening** (4a) of said bag when **rotated** by said
umbrella (U). The bag-opening means (102, 104) comprises a receiving and
guiding...

...SPECIFICATION rotatable, is arranged so that an insertion opening of the
above-described receiving bag is **opened** by **rotating** the **opening**
operation member with a point of the umbrella.

There, the above-described opening operation member...

...main body, and is arranged so that the insertion opening of the
receiving bag is **opened** by **rotating** the **opening** operation member
with the point portion of an umbrella; therefore the receiving bag is
easily...to a top surface of the movable plate 18. 21 in the drawings is
a **rotational** return spring of the **opening** operation member 20 formed
by a tension coiled spring, and both end parts of the...

...which is in the foremost position.

When the umbrella U is further pressed downwards, the **opening**
operation member 20 **rotates** around the support shaft 19 in the
clockwise direction of Fig. 8, against the tension...

...21 and the opening operation member 20 also moves in the left direction,

before the **opening** operation member 20 **rotates** around the support shaft 19 in the upward direction and returns to a virtually horizontal bag may be **opened** only by the **rotating** movement of the **opening** operation member 20 by only providing the opening operation member 20 within the main body...

...abuts to the receiving part 65 of the first member, the entire body of the **opening** operation mechanism 60 **rotates** around the shaft 73 in a clockwise direction (the direction illustrated by the arrow CW...not fall on the receiving bag (a polyethylene bag).

When the entire body of the **opening** operation mechanism 60 **rotates** in a counter clockwise direction by the spring 74, and the member 66 abuts to...the opening guide member 104. The direction in which the fragmentary member 102 (or the **opening** guide member 104) **rotates** is the direction shown by an arrow RU in Fig. 23.

When the umbrella U is pressed downwards and the fragmentary member 102 (or the **opening** guide member 104) **rotates**, the state becomes as Fig. 29 illustrates. Then returning to Fig. 28, the lower end...

...point portion UE of the umbrella is further pressed downward, the fragmentary member 102 further **rotates**, and the **opening** guide member 104 further enters the inside of the receiving bag 4. The fragmentary member...receiving bag is provided within the main body of the device so as to be **rotatable**, is arranged so as to **open** the insertion opening of the above-described receiving bag by operating the opening operation member...

...SPECIFICATION against the top surface of the movable plate 18. 21 in the drawings is a **rotational** return spring of the **opening** operation member 20 formed by a tension coil spring, and both end parts of the... which is in the foremost position.

When the umbrella U is further pressed downwards, the **opening** operation member 20 **rotates** around the support shaft 19 in the clockwise direction of Fig. 8, against the tension...

...21 and the opening operation member 20 also moves in the left direction, before the **opening** operation member 20 **rotates** around the support shaft 19 in the upward direction and returns to a substantially horizontal...

...being limited to the above. Furthermore, the insertion opening of the receiving bag could be **opened** just by the **rotating** movement of the **opening** operation member 20 by only providing the **rotatable opening** operation member 20 within the main body 1 of the device so as to be... the opening guide member 104. The direction in which the fragmentary member 102 (or the **opening** guide member 104) **rotates** is the direction shown by an arrow RU in Fig. 11.

When the umbrella U is pressed downwards and the fragmentary member 102 (or the **opening** guide member 104) **rotates**, the state of Fig. 17 is achieved. Then returning to Fig. 16, the lower end...

...point portion UP of the umbrella is further pressed downward, the fragmentary member 102 further **rotates**, and the **opening** guide member 104 further enters the inside of the receiving bag 4. The fragmentary member...

...CLAIMS comprising a main body (1) containing at least one said receiving bag (4) and a **rotatable bag-opening** means (102, 104) for opening an insertion **opening** (4a) of said bag when **rotated** by said umbrella (U); characterised in that said bag-opening means (102, 104)

comprises a...

11/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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01071564

Self-supporting umbrella
Selbstständig stehender Regenschirm
Parapluie tenant debout

PATENT ASSIGNEE:

Ishizaka, Takeshi, (2477140), No. 27-12, 3-chome, Midoridai, Kashiwa-shi,
Chiba-ken, (JP), (Applicant designated States: all)

INVENTOR:

Ishizaka, Takeshi, No. 27-12, 3-chome, Midoridai, Kashiwa-shi, Chiba-ken,
(JP)

LEGAL REPRESENTATIVE:

Korber, Wolfhart, Dr. rer.nat. (44475), Patentanwälte Mitscherlich &
Partner, Sonnenstrasse 33, 80331 München, (DE)

PATENT (CC, No, Kind, Date): EP 943258 A1 990922 (Basic)

APPLICATION (CC, No, Date): EP 98105044 980319;

DESIGNATED STATES: DE; FR; GB; IT

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: **A45B-001/00**

ABSTRACT WORD COUNT: 225

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS A | (English) | 9938 | 421 |
| SPEC A | (English) | 9938 | 4600 |
| Total word count - document A | | | 5021 |
| Total word count - document B | | | 0 |
| Total word count - documents A + B | | | 5021 |

INTERNATIONAL PATENT CLASS: **A45B-001/00**

...SPECIFICATION the operation of the female-threaded adjusting cylinder.

When the female-threaded adjusting cylinder is **rotated** to **open** the legs, since the female thread of the adjusting cylinder is engaged with the cylindrical...also moves toward the handle 3. The projections 4c which are pinched by the leg **opening** member 7 are **rotated** or swung in the direction opposite to that at the time of opening the legs...

...the legs are closed can be maintained. If the female-threaded adjusting cylinder 9 is **rotated** in the opposite direction to **open** the legs, the engagement is released, whereby the leg operating member 7 moves toward the...

...of the legs 4a cannot be made, the legs 4a can easily and surely be **opened** and closed by slightly **rotating** the female-threaded adjusting cylinder 9.

As still another modified embodiment, the following arrangement may...

...projection is engaged with the spiral groove.

When the female-threaded adjusting cylinder 9 is **rotated** to **open** the legs, the female-threaded adjusting cylinder 9 moves toward the front

end of the...

...the legs 4a cannot be adjusted, the legs 4a can be easily and surely be **opened** and closed by simply **rotating** the female-threaded adjusting cylinder 9.

As can be seen from the above-described explanations...

...thereof is easy.

According to another aspect of the present invention, the legs can be **opened** or closed only by **rotating** the female-threaded adjusting cylinder at the handle of the umbrella. Therefore, it is not...

11/3,K/4 (Item 4 from file: 348)

DIALOG(R) File 348:EUROPEAN PATENTS

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00837185

DEVICE FOR STORING UMBRELLA INTO BAG

VORRICHTUNG ZUM EINBRINGEN EINES SCHIRMS IN EINE HULLE

DISPOSITIF POUR RANGER UN PARAPLUIE DANS UN SAC

PATENT ASSIGNEE:

KABUSHIKI KAISHA MURAHARU SEISAKUSHO, (1824670), 17-19, Onodai 5-chome,
Sagamihara-shi, Kanagawa 229, (JP), (Proprietor designated states: all)
NIIKURA SCALES CO., LTD., (1824690), 2, Kanda-Tsukasacho 2-chome,
Chiyoda-ku, Tokyo 101, (JP), (Proprietor designated states: all)

INVENTOR:

MURAKAMI, Toshiyuki, 17-19, Onodai 5-chome, Sagamihara-shi, Kanagawa 229,
(JP)

LEGAL REPRESENTATIVE:

Leale, Robin George et al (32911), Frank B. Dehn & Co., European Patent
Attorneys, 179 Queen Victoria Street, London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 781708 A1 970702 (Basic)

EP 781708 A1 990210

EP 781708 B1 010516

WO 9703882 970206

APPLICATION (CC, No, Date): EP 95925992 950719; WO 95JP1433 950719

PRIORITY (CC, No, Date): EP 95925992 950719; WO 95JP1433 950719

DESIGNATED STATES: DE; ES; FR; GB; IT; NL

RELATED DIVISIONAL NUMBER(S) - PN (AN):

EP 1002726 (EP 2000200112)

EP 1002725 (EP 2000200111)

INTERNATIONAL PATENT CLASS: B65B-067/04; B65B-067/12; B65B-043/28;

B65B-043/30; B65B-043/14; **A45B-025/24**

ABSTRACT WORD COUNT: 222

NOTE:

Figure number on first page: 2

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS A | (English) | EPAB97 | 386 |
| CLAIMS B | (English) | 200120 | 269 |
| CLAIMS B | (German) | 200120 | 252 |
| CLAIMS B | (French) | 200120 | 317 |
| SPEC A | (English) | EPAB97 | 7946 |
| SPEC B | (English) | 200120 | 5311 |
| Total word count - document A | | | 8333 |
| Total word count - document B | | | 6149 |
| Total word count - documents A + B | | | 14482 |

...INTERNATIONAL PATENT CLASS: **A45B-025/24**

...SPECIFICATION rotatable, is arranged so that an insertion opening of the above-described receiving bag is **opened** by **rotating** the **opening** operation member with a point of the umbrella.

There, the above-described opening operation member...

...main body, and is arranged so that the insertion opening of the receiving bag is **opened** by **rotating** the **opening** operation member with the point portion of an umbrella; therefore the receiving bag is easily...to a top surface of the movable plate 18. 21 in the drawings is a **rotational** return spring of the **opening** operation member 20 formed by a tension coiled spring, and both end parts of the...

...which is in the foremost position.

When the umbrella U is further pressed downwards, the **opening** operation member 20 **rotates** around the support shaft 19 in the clockwise direction of Fig. 8, against the tension...

...21 and the opening operation member 20 also moves in the left direction, before the **opening** operation member 20 **rotates** around the support shaft 19 in the upward direction and returns to a virtually horizontal bag may be **opened** only by the **rotating** movement of the **opening** operation member 20 by only providing the opening operation member 20 within the main body...

...abuts to the receiving part 65 of the first member, the entire body of the **opening** operation mechanism 60 **rotates** around the shaft 73 in a clockwise direction (the direction illustrated by the arrow CW...not fall on the receiving bag (a polyethylene bag).

When the entire body of the **opening** operation mechanism 60 **rotates** in a counter clockwise direction by the spring 74, and the member 66 abuts to...the opening guide member 104. The direction in which the fragmentary member 102 (or the **opening** guide member 104) **rotates** is the direction shown by an arrow RU in Fig. 23.

When the umbrella U is pressed downwards and the fragmentary member 102 (or the **opening** guide member 104) **rotates**, the state becomes as Fig. 29 illustrates. Then returning to Fig. 28, the lower end...

...point portion UE of the umbrella is further pressed downward, the fragmentary member 102 further **rotates**, and the **opening** guide member 104 further enters the inside of the receiving bag 4. The fragmentary member...receiving bag is provided within the main body of the device so as to be **rotatable**, is arranged so as to **open** the insertion opening of the above-described receiving bag by operating the opening operation member...

...SPECIFICATION receiving bag, comprising a main body containing at least one said receiving bag and a **rotatable** bag- **opening** means for **opening** an insertion **opening** of said bag when **rotated** by said umbrella; characterised in that said bag-opening means comprises a first part for ...

...of said umbrella; a second part having a generally spatula shape for entering said insertion **opening**, said second part being **rotatably** mounted relative to the first part on a shaft; and an elastic member which acts...

...main body, and is arranged so that the insertion opening of the receiving bag is **opened** by **rotating** the **opening** operation member with the point portion of an umbrella; therefore the receiving bag is

easily...against the top surface of the movable plate 18. 21 in the drawings is a **rotational** return spring of the **opening** operation member 20 formed by a tension coil spring, and both end parts of the...

...which is in the foremost position.

When the umbrella U is further pressed downwards, the **opening** operation member 20 **rotates** around the support shaft 19 in the clockwise direction of Fig. 8, against the tension...

...21 and the opening operation member 20 also moves in the left direction, before the **opening** operation member 20 **rotates** around the support shaft 19 in the upward direction and returns to a substantially horizontal...

...being limited to the above. Furthermore, the insertion opening of the receiving bag could be **opened** just by the **rotating** movement of the **opening** operation member 20 by only providing the **rotatable opening** operation member 20 within the main body 1 of the device so as to be... and abuts the receiving part 65 of the first member, the entire body of the **opening** operation mechanism 60 **rotates** around the shaft 73 in a clockwise direction (the direction illustrated by the arrow CW...not fall on the receiving bag (a polyethylene bag).

When the entire body of the **opening** operation mechanism 60 is **rotated** in a counter clockwise direction by the spring 74, and the member 66 contacts to...

...CLAIMS and an opening operation member which is provided within the main body so as to **rotate** and **opens** an insertion **opening** of the above-described receiving bag by being rotated by the point of the umbrella...

...CLAIMS comprising a main body (1) containing at least one said receiving bag (4) and a **rotatable bag-opening** means (64, 65, 66) for opening an insertion **opening** (4a) of said bag when **rotated** by said umbrella (U); characterised in that said bag-opening means (64, 65, 66) comprises...

...umbrella (U); a second part (66) having a generally spatula shape for entering said insertion **opening** (4a), said second part being **rotatably** mounted relative to the first part (64, 65) on a shaft (68); and an elastic...

...takes place.

3. A device as claimed in claim 1 or 2 wherein said bag **opening** means (64, 65, 66) is **rotatably** mounted to a mounting plate (62) said mounting plate being rotatably mounted to the main...

11/3,K/5 (Item 5 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00677587

APPARATUS FOR GETTING AN UMBRELLA RECEIVED INTO AN UMBRELLA COVER

VORRICHTUNG ZUM EINBRINGEN EINES SCHIRMS IN EINE HULLE

APPAREIL PERMETTANT D'INTRODUIRE UN PARAPLUIE DANS UNE HOUSSE DE PARAPLUIE

PATENT ASSIGNEE:

KABUSHIKI KAISHA MURAHARU SEISAKUSHO, (1824670), 17-19, Onodai 5-chome, Sagamihara-shi, Kanagawa 229, (JP), (applicant designated states: DE;ES;FR;GB;IT;NL)

NIIKURA SCALES CO., LTD., (1824690), 2, Kanda-Tsukasacho 2-chome,
Chiyoda-ku, Tokyo 101, (JP), (applicant designated states:
DE;ES;FR;GB;IT;NL)
KABUSHIKI KAISHA YAKULT HONSHA, (316160), 1-19, Higashishinbashi 1-chome,
Minato-ku Tokyo 105, (JP), (applicant designated states:
DE;ES;FR;GB;IT;NL)

INVENTOR:

MURAKAMI, Toshiyuki, 17-19, Onodai 5-chome, Sagami-hara-shi, Kanagawa 229,
(JP)

LEGAL REPRESENTATIVE:

Leale, Robin George et al (32911), Frank B. Dehn & Co., European Patent
Attorneys, 179 Queen Victoria Street, London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 657357 A1 950614 (Basic)

EP 657357 A1 951129

EP 657357 B1 980422

WO 9501281 950112

APPLICATION (CC, No, Date): EP 94903036 931222; WO 93JP1852 931222

PRIORITY (CC, No, Date): JP 9341131 930630; JP 93321070 931126; JP 93321071
931126

DESIGNATED STATES: DE; ES; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: B65B-067/12; B65B-043/34; **A45B-025/24** ;

B65D-033/00

ABSTRACT WORD COUNT: 206

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|----------------|----------|--------|------------|
|----------------|----------|--------|------------|

| | | | |
|----------|-----------|------|-----|
| CLAIMS B | (English) | 9817 | 238 |
|----------|-----------|------|-----|

| | | | |
|----------|----------|------|-----|
| CLAIMS B | (German) | 9817 | 241 |
|----------|----------|------|-----|

| | | | |
|----------|----------|------|-----|
| CLAIMS B | (French) | 9817 | 298 |
|----------|----------|------|-----|

| | | | |
|--------|-----------|------|------|
| SPEC B | (English) | 9817 | 3656 |
|--------|-----------|------|------|

| | |
|-------------------------------|---|
| Total word count - document A | 0 |
|-------------------------------|---|

| | |
|-------------------------------|------|
| Total word count - document B | 4433 |
|-------------------------------|------|

| | |
|------------------------------------|------|
| Total word count - documents A + B | 4433 |
|------------------------------------|------|

...INTERNATIONAL PATENT CLASS: **A45B-025/24**

...SPECIFICATION to move and rotate independently relative to the movable support member. Means for moving and **rotating** each **opening** lever in a direction to contact said storage sacks, is preferably provided separately e.g...similar and is mounted to the movable support member 11.

In addition, a pair of **opening** levers 22,22 are **rotatably** provided on the upper central portion of the movable support member 11. Said levers 22...

...vertically to one end of the movable support member 11 so as to be freely **rotatable**. The lower ends of the **opening** levers 22,22 are urged in a direction towards the storage sacks 5. This is...when the opening lever 22 moves downward together with the movable support member 11, each **opening** lever 22,22 **rotates** in a clockwise direction, against the rotating spring 25, around its point of contact with... provided on the guide rail 216 and guide member 212. The contacting plates cause each **opening** lever 222 to **rotate** in the reverse direction towards a storage sack 204 through contact with the **rotation** control arm 223 when the **opening** levers 222 move downward together with a movable support member 214.

Although a tension coil spring is shown as the means of making each **opening** lever 222,222 **rotate** towards the storage sacks 204, other helical springs could be used.

With regard to the...

...support member 214 moves downward against a return spring 220 through a link 219, the **opening** levers 222 move and **rotate** independently with respect to the movable support member 214. Since the springs 224, which move and **rotate** to urge the **opening** levers 222,222 towards the storage sacks, operate horizontally independently, each opening lever 222 can...

...CLAIMS with respect to said movable support member (11;114;214); and means (25;224) for **rotating** each of said **opening** levers in such a direction so as, in use, to contact a storage sack (5...

11/3,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2003 European Patent Office. All rts. reserv.

00640318

APPARATUS FOR GETTING AN ARTICLE RECEIVED INTO A COVER
VORRICHTUNG ZUM EINBRINGEN EINES GEGENSTANDES IN EINE HULLE
APPAREIL POUR FAIRE RENTRER UN ARTICLE DANS UNE HOUSSE

PATENT ASSIGNEE:

KABUSHIKI KAISHA MURAHARU SEISAKUSHO, (1824670), 17-19, Onodai 5-chome, Sagamihara-shi, Kanagawa 229, (JP), (applicant designated states:

DE;ES;FR;GB;IT;NL)

NIKURA SCALES CO., LTD., (1824690), 2, Kanda-Tsukasacho 2-chome, Chiyoda-ku, Tokyo 101, (JP), (applicant designated states:

DE;ES;FR;GB;IT;NL)

INVENTOR:

MURAKAMI, Toshiyuki, 17-19, Onodai 5-chome, Sagamihara-shi, Kanagawa 229, (JP)

LEGAL REPRESENTATIVE:

Leale, Robin George (32911), Frank B. Dehn & Co., European Patent Attorneys, 179 Queen Victoria Street, London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 626316 A1 941130 (Basic)

EP 626316 A1 950614

EP 626316 B1 990331

WO 9414661 940707

APPLICATION (CC, No, Date): EP 94903037 931222; WO 93JP1853 931222

PRIORITY (CC, No, Date): JP 9292370 921222; JP 9341131 930630; JP 93321070 931126; JP 93321071 931126

DESIGNATED STATES: DE; ES; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: B65B-067/12; B65B-043/34; **A45B-025/24** ; B65D-033/00

ABSTRACT WORD COUNT: 167

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS B | (English) | 9913 | 159 |
| CLAIMS B | (German) | 9913 | 161 |
| CLAIMS B | (French) | 9913 | 193 |
| SPEC B | (English) | 9913 | 5239 |
| Total word count - document A | | | 0 |
| Total word count - document B | | | 5752 |
| Total word count - documents A + B | | | 5752 |

...INTERNATIONAL PATENT CLASS: **A45B-025/24**

...SPECIFICATION of opening levers coupled to an opening actuator so as to

be inserted into said **opening** of said foremost bag and **rotated** to **open** said **opening** by downward movement of said opening actuator when pressed by a user.

In a preferred...similar and is mounted to the movable support member 11.

In addition, a pair of **opening** levers 22,22 are **rotatably** provided on the upper central portion of the movable support member 11. Said levers 22...

...vertically to one end of the movable support member 11 so as to be freely **rotatable**. The lower ends of the **opening** levers 22,22 are urged in a direction towards the wrapping bags 5. This is...when the opening lever 22 moves downward together with the movable support member 11, each **opening** lever 22,22 **rotates** in a clockwise direction, against the rotating spring 25, around its point of contact with... provided on the guide rail 216 and guide member 212. The contacting plates cause each **opening** lever 222 to **rotate** in the reverse direction towards a wrapping bag 204 through contact with the **rotation** control arm 223 when the **opening** levers 222 move downward together with a movable support member 214.

Although a tension coil spring is shown as the means of making each **opening** lever 222,222 **rotate** towards the wrapping bags 204, other helical springs could be used.

With regard to the...

...support member 214 moves downward against a return spring 220 through a link 219, the **opening** levers 222 move and **rotate** independently with respect to the movable support member 214. Since the springs 224, which move and **rotate** to urge the **opening** levers 222,222 towards the wrapping bags, operate horizontally independently, each opening lever 222 can...forward. By mounting a weight 430 at the end of the bent portion 429a, the **opening** lever 428 tends to **rotate** in a counterclockwise direction as seen from Fig. 24 so that the lower end of...

...face of the guide rail 413, there is integrally provided a connecting plate 431, which **rotates** the **opening** lever 428 in a clockwise direction as seen from Fig. 4, by acting on the...

...CLAIMS 22) coupled to an opening actuator (16;425) so as to be inserted into said **opening** of said foremost bag and **rotated** to **open** said **opening** by downward movement of said opening actuator when pressed by a user.

2. A storage...

11/3,K/7 (Item 7 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

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00640317

APPARATUS FOR GETTING AN UMBRELLA RECEIVED INTO AN UMBRELLA COVER

VORRICHTUNG ZUM EINBRINGEN EINES SCHIRMS IN EINE HULLE

APPAREIL POUR FAIRE RENTRER UN PARAPLUIE DANS UNE HOUSSE

PATENT ASSIGNEE:

KABUSHIKI KAISHA MURAHARU SEISAKUSHO, (1824670), 17-19, Onodai 5-chome, Sagamihara-shi, Kanagawa 229, (JP), (applicant designated states: DE;ES;FR;GB;IT;NL)

NIIKURA SCALES CO., LTD., (1824690), 2, Kanda-Tsukasacho 2-chome, Chiyoda-ku, Tokyo 101, (JP), (applicant designated states: DE;ES;FR;GB;IT;NL)

KABUSHIKI KAISHA YAKULT HONSHA, (316160), 1-19, Higashishinbashi 1-chome,
Minato-ku Tokyo 105, (JP), (applicant designated states:
DE;ES;FR;GB;IT;NL)

INVENTOR:

MURAKAMI, Toshiyuki, 17-19, Onodai 5-chome, Sagamihara-shi, Kanagawa 229,
(JP)

LEGAL REPRESENTATIVE:

Leale, Robin George (32911), Frank B. Dehn & Co., European Patent
Attorneys, 179 Queen Victoria Street, London EC4V 4EL, (GB)

PATENT (CC, No, Kind, Date): EP 626315 A1 941130 (Basic)

EP 626315 A1 950614

EP 626315 B1 980422

WO 9414660 940707

APPLICATION (CC, No, Date): EP 94903035 931222; WO 93JP1851 931222

PRIORITY (CC, No, Date): JP 9292370 921222; JP 93321070 931126; JP 93321071
931126

DESIGNATED STATES: DE; ES; FR; GB; IT; NL

INTERNATIONAL PATENT CLASS: B65B-067/12; B65B-043/34; **A45B-025/24** ;

B65D-033/00

ABSTRACT WORD COUNT: 313

LANGUAGE (Publication,Procedural,Application): English; English; Japanese

FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|----------------|-----------|--------|------------|
| CLAIMS B | (English) | 9817 | 264 |
| CLAIMS B | (German) | 9817 | 245 |
| CLAIMS B | (French) | 9817 | 308 |
| SPEC B | (English) | 9817 | 3757 |

Total word count - document A 0

Total word count - document B 4574

Total word count - documents A + B 4574

...INTERNATIONAL PATENT CLASS: **A45B-025/24**

...SPECIFICATION independently. In this case, with regards to the means
(e.g. spring) which moves and **rotates** the **opening** levers in a certain
direction to contact with storage sacks charged in the storage device...
forward. By mounting a weight 30 at the end of the bent portion 29a, the
opening lever 28 tends to **rotate** in a counterclockwise direction as
seen from Fig. 4 so that the lower end of...

...face of the guide rail 13, there is integrally provided a connecting
plate 31, which **rotates** the **opening** lever 28 in a clockwise direction
as seen from Fig. 4, by acting on the...

11/3,K/8 (Item 8 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

00313577

Toy umbrella.

Spielzeugschirm.

Parapluie-jouet.

PATENT ASSIGNEE:

THE QUAKER OATS COMPANY, (407562), 321 North Clark Street, Chicago
Illinois 60610, (US), (applicant designated states:

BE;CH;DE;ES;FR;GB;IT;LI;LU;NL)

INVENTOR:

Lerch, Karl D, 250 Pine Street, East Aurora New York 14052, (US)

LEGAL REPRESENTATIVE:

Carpmael, John William Maurice et al (29161), CARPMAELS & RANSFORD 43
 Bloomsbury Square, London, WC1A 2RA, (GB)
 PATENT (CC, No, Kind, Date): EP 298623 A2 890111 (Basic)
 EP 298623 A3 890719
 APPLICATION (CC, No, Date): EP 88305601 880620;
 PRIORITY (CC, No, Date): US 71015 870708
 DESIGNATED STATES: BE; CH; DE; ES; FR; GB; IT; LI; LU; NL
 INTERNATIONAL PATENT CLASS: **A45B-025/14 ; A45B-025/02**
 ABSTRACT WORD COUNT: 88
 LANGUAGE (Publication,Procedural,Application): English; English; English
 FULLTEXT AVAILABILITY:

| Available Text | Language | Update | Word Count |
|------------------------------------|-----------|--------|------------|
| CLAIMS A | (English) | EPABF1 | 402 |
| SPEC A | (English) | EPABF1 | 1547 |
| Total word count - document A | | | 1949 |
| Total word count - document B | | | 0 |
| Total word count - documents A + B | | | 1949 |

INTERNATIONAL PATENT CLASS: **A45B-025/14 ...**

... A45B-025/02

...SPECIFICATION of simple design and construction that can be held by one hand and a handle **rotated** by the other hand for **opening** or closing the umbrella.

Summary of the Invention

An object of this invention is to...

11/3,K/9 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00778837 **Image available**

UMBRELLA ASSEMBLY

ENSEMBLE FORMANT PARAPLUIE

Patent Applicant/Assignee:

GOLDWITZ Tracy, 342 Country Lane, Orange, CT 06477, US, US (Residence),
 US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

GOLDWITZ Brian L, 342 Country Lane, Orange, CT 06477, US, US (Residence),
 US (Nationality), (Designated only for: US)

Legal Representative:

GIARRATANA Mark D (et al) (agent), Cummings & Lockwood, Granite Square,
 700 State Sreet, P.O. Box 1960, New Haven, CT 06509-1960, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200112009 A1 20010222 (WO 0112009)

Application: WO 2000US40639 20000814 (PCT/WO US0040639)

Priority Application: US 99149026 19990813; US 99158580 19991007

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ

DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG

SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4421

Main International Patent Class: **A45B-011/00**

Fulltext Availability:

Claims

English Abstract

...by rotating the handle (28), the cable (136) is retracted and the umbrella (20) is **opened**, and by **rotating** the handle (28) in the opposite direction, the cable (136) is released, the umbrella (20...

Claim

... the upper portion of the pole and, in turn, extend the umbrella frame into an **open** condition, (ii) **rotatable** in a second direction to release the cable and in turn collapse the umbrella frame...

11/3,K/10 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00768805 **Image available**

GOLF CLUB AND UMBRELLA HOLDING DEVICE

DISPOSITIF DE SUPPORT POUR CLUBS DE GOLF ET PARAPLUIES

Patent Applicant/Inventor:

MULHOLLAND Kevin, 49 Willis Road, North Arlington, NJ 07031, US, US

(Residence), US (Nationality)

DATTOLO Vincent, 21C King Street, Morristown, NJ 07960, US, US

(Residence), US (Nationality)

Legal Representative:

SQUIRE William, Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart &

Olstein, 6 Becker Farm Road, Roseland, NJ 07068, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200102062 A1 20010111 (WO 0102062)

Application: WO 2000US18437 20000705 (PCT/WO US0018437)

Priority Application: US 99345116 19990706

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM

EE ES FI GB GD GE GH GM HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU

LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT

TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 4915

International Patent Class: **A45B-003/00**

Fulltext Availability:

Detailed Description

Detailed Description

... stem 76 is then slid upwardly to open the umbrella as in conventional umbrellas. When **open**, the devices are then **rotated** to the deployed position similar to that of the embodiment of Fig. 5 and locked...

11/3,K/11 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00763351 **Image available**

UMBRELLA FRAME AND OPERATING SYSTEM

ARMATURE DE PARAPLUIE ET SON SYSTEME DE MISE EN SERVICE

Patent Applicant/Inventor:

CLARKE Dougan H, 1770 S.W. 13th Avenue, Miami, FL 33145, US, US
(Residence), US (Nationality)

Legal Representative:

MALLOY Jennie S, Malloy & Malloy, P.A., 2800 S.W. 3rd Avenue, Miami, FL
33129, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200076356 A1 20001221 (WO 0076356)

Application: WO 2000US16028 20000612 (PCT/WO US0016028)

Priority Application: US 99330600 19990611; US 99433881 19991104

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK

DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ

TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 9690

Main International Patent Class: **A45B-025/02**

Fulltext Availability:

Claims

Claim

... provides a versatile umbrella
operating system which allows an umbrella to be safely and easily
opened to almost any degree, easily **rotated**, and securely
stabilized. As such, the present invention includes a pulley
system to allow the...described, which
is advantageously used in stabilizing an umbrella and in easily
is and quickly **opening**, closing and **rotating** an umbrella.
As mentioned previously herein, the main hub member 18 may be
secured in...umbrella of the present invention with the
ultimate in versatility, as the umbrella may be **opened** and **rotated**
to any desired degree completely free of impediments.
As shown in Figure 13, the line...

11/3,K/12 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00517047 **Image available**

UMBRELLA DEVICE

DISPOSITIF PARAPLUIE

Patent Applicant/Assignee:

WERNER SOBEK INGENIEURE GMBH,
TRANSSOLAR ENERGIETECHNIK GMBH,
SOBEK Werner,
SCHULER Mathias,
BAUMuLLER Dominik,

Inventor(s):

SOBEK Werner,
SCHULER Mathias,

BAUMuLLER Dominik,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9948399 A1 19990930
Application: WO 99EP1668 19990313 (PCT/WO EP9901668)
Priority Application: DE 19812553 19980321
Designated States: CA CN ID JP KR SG US AT BE CH CY DE DK ES FI FR GB GR IE
IT LU MC NL PT SE
Publication Language: German
Fulltext Word Count: 2053
Main International Patent Class: **A45B-019/02**
International Patent Class: **A45B-023/00**

English Abstract

...flexible but tenacious membrane (21) with a circular base. The
centrifugal forces generated by the **rotation** can erect and **open** up
the membrane (21), altering its position from a position of rest, in
which it...

11/3,K/13 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00473311 **Image available**

SUNSHADE

PARE-SOLEIL

Patent Applicant/Assignee:

ROBERT HICKS PTY LTD,
PAWSEY Rayman James,
COLLINS Christopher,
CHAI Lun,
SHEEHAN Dan,

Inventor(s):

PAWSEY Rayman James,
COLLINS Christopher,
CHAI Lun,
SHEEHAN Dan,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9904663 A1 19990204
Application: WO 98AU566 19980720 (PCT/WO AU9800566)
Priority Application: AU 978105 19970721

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES
FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD
MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US
UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE
CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN
GW ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 8113

Main International Patent Class: **A45B-011/00**

International Patent Class: **A45B-019/00** ...

... **A45B-023/00** ...

... **A45B-025/02**

Fulltext Availability:

Detailed Description

Detailed Description

... towards each other.

Similarly, as the shade is moved from its collapsed state to the **expanded** state, support 4 **rotates** towards groove 13, thereby rotating foot 14 within cavity 12 in the opposite direction, until...

11/3,K/14 (Item 6 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00455637 **Image available**

UNIVERSAL PLATFORM SUPPORT FOR A WALKER

SUPPORT DE PLATE-FORME UNIVERSEL POUR DEAMBULATEUR

Patent Applicant/Assignee:

INVACARE CORPORATION,

OBITTS SHANE,

Inventor(s):

OBITTS SHANE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9846101 A1 19981022

Application: WO 98US7612 19980415 (PCT/WO US9807612)

Priority Application: US 9743601 19970415

Designated States: CA US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 3027

Main International Patent Class: **A45B-003/00**

Fulltext Availability:

Detailed Description

Detailed Description

... allow the push-handle grip to be advanced forwardly and rearwardly in the handle-receiving **opening**, or **rotated** thereabout, for comfort of the user.

The

11/3,K/15 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00407558 **Image available**

COMBINED UMBRELLA CASE AND HANDLE

BOITIER ET POIGNEE DE PARAPLUIE COMBINES

Patent Applicant/Assignee:

WRIGHT Alister Eugene,

Inventor(s):

WRIGHT Alister Eugene,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9748303 A1 19971224

Application: WO 96AU358 19960617 (PCT/WO AU9600358)

Priority Application: WO 96AU358 19960617

Designated States: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG

Publication Language: English

Fulltext Word Count: 3124

Main International Patent Class: **A45B-025/24**

Fulltext Availability:

Detailed Description

Detailed Description

... rotation being limited by the stopper 42. Figures 1 and 3 show the clip 30 **rotated** between **open** (Figure 1) and locked (Figure 3) positions.

The strap 26 is attached to both the...

| Set | Items | Description |
|-----|---------|---|
| S1 | 2249032 | UMBRELLA? OR CANOPY OR CANOPIES OR DEVICE? OR MEMBRANE? |
| S2 | 544717 | ROTAT? OR CENTRIFUGAL? OR CIRCULAR(2N) (MOVE? OR MOTION?) |
| S3 | 1117821 | OPEN? OR EXPAND? OR EXPANSION? |
| S4 | 688733 | SHAFT OR STEM OR DRIVER? OR MOTOR |
| S5 | 2249304 | S1 OR PARASOL? |
| S6 | 6444 | S2(10N)S3 |
| S7 | 85 | S6(15N)S5 |
| S8 | 301 | S6(S)S4 |
| S9 | 29 | S8(S)S5 |
| S10 | 108 | S7 OR S9 |
| S11 | 92 | S10 NOT PY>2000 |
| S12 | 74 | RD (unique items) |
| S13 | 34884 | UMBRELLA? ? OR PARASOL? OR CANOPY |
| S14 | 5 | S13 AND S6 |
| S15 | 127 | (UMBRELLA? OR PARASOL? ?)(10N)(S2 OR S3) |
| S16 | 102 | S15 NOT PY>2000 |
| S17 | 96 | RD (unique items) |
| S18 | 96 | S17 NOT S12 |

? show file

File 6:NTIS 1964-2003/Jun W1
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File 34:SciSearch(R) Cited Ref Sci 1990-2003/May W4
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File 65:Inside Conferences 1993-2003/May W4
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(c) 1999 Information Handling Services

File 94:JICST-EPlus 1985-2003/May W4
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File 95:TEME-Technology & Management 1989-2003/May W2
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File 96:FLUIDEX 1972-2003/May
(c) 2003 Elsevier Science Ltd.

File 99:Wilson Appl. Sci & Tech Abs 1983-2003/Apr
(c) 2003 The HW Wilson Co.

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
(c) 1998 Inst for Sci Info

12/3,K/1 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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2116629 NTIS Accession Number: DE99001355/XAB

Observation and control of resistive wall modes

Strait, E. J. ; Garofalo, A. M. ; Austin, M. E.

General Atomics, San Diego, CA.

Corp. Source Codes: 888888888;

Sponsor: Princeton Univ., Princeton Plasma Physics Lab., NJ.; Oak Ridge National Lab., TN.; Lawrence Livermore National Lab., CA.; Univ. of Texas, Austin, TX.; Department of Energy, Washington, DC.

Report No.: GA-A22994

31 Dec 1998 18p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI9911; ERA9911

IAEA fusion energy conference (17th). Sponsored by Department of Energy, Washington, DC.

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NTIS Prices: PC A03/MF A01

Descriptors: Stabilization; *Kink Instability; **Rotating** Plasma; Doublet-3 **Device** ; **Open** - Loop Control; Instability Growth Rates; Plasma Macroinstabilities; Meetings

12/3,K/2 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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2114414 NTIS Accession Number: ADD019123/XAB

Limited Rotation Connection Device

(Patent)

Ball, R. W.

Department of the Navy, Washington, DC.

Corp. Source Codes: 001840000; 110050

Report No.: PAT-APPL-8-804 857; PATENT-5 764 827

Filed 24 Feb 97 patented 9 Jun 98 7p

Languages: English Document Type: Patent

Journal Announcement: GRAI9911

Supersedes PAT-APPL-8-804 857.

This Government-owned invention available for U.S. licensing and, possibly, for foreign licensing. Copy of patent available Commissioner of Patents, Washington, DC 20231.

NTIS Prices: Not available NTIS

A limited rotation connection **device** includes a housing defining a central hole extending therethrough and a central **shaft** extending through the central hole of the housing and being rotatably mounted to the housing ...
...also defining an annular slot surrounding and extending in substantially perpendicular relation to the central **shaft**. The **device** also includes an elongated flexible communication element disposed in the annular slot of the housing and having a first opposite end portion mounted to the central **shaft** and a second opposite end portion mounted to the housing. The communication element is collapsible and **expandable** upon **rotation** of the central **shaft** relative to the housing so as to allow limited

rotations of the opposite end portions...

... first opposite end portion of the communication element is connectable to a first external communication **device** . The second opposite end portion of the communication element is held stationary and is connectable to a second external communication **device** .

12/3,K/3 (Item 3 from file: 6)

DIALOG(R)File 6:NTIS

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2060040 NTIS Accession Number: AD-A337 591/2/XAB

Design and Evaluation of a Directional Antenna for Ocean Buoys

(Technical rept)

Frye, D. ; Doherty, K. ; Hinton, A.

Woods Hole Oceanographic Institution, MA.

Corp. Source Codes: 015160000; 381000

Report No.: WHOI-97-16

Nov 97 68p

Languages: English

Journal Announcement: GRAI9812

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NTIS Prices: PC A05/MF A01

...Descriptors: Steering; Data transmission systems; Orientation(Direction); Efficiency; Stepper motors; Mounts; Power; Data rate; Compasses; Magnetic **devices** ; Elevation; Data links; **Rotation** ; Antenna arrays; Communication satellites; Tilt; **Open** water; Offshore; Synchronous satellites; Radio relay stations; Oceanographic equipment

12/3,K/4 (Item 4 from file: 6)

DIALOG(R)File 6:NTIS

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1876942 NTIS Accession Number: DE95006824

Vibration suppression of fixed-time jib crane maneuvers

Parker, G. G. ; Petterson, B. ; Dohrmann, C. R. ; Robinett, R. D.

Sandia National Labs., Albuquerque, NM.

Corp. Source Codes: 068123000; 9511100

Sponsor: Department of Energy, Washington, DC.

Report No.: SAND-95-0139C; CONF-950228-1

1995 10p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI9515; ERA9529

North American conference on smart structures and materials, San Diego, CA (United States), 26 Feb - 3 Mar 1995. Sponsored by Department of Energy, Washington, DC.

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NTIS Prices: PC A02/MF A01

... end line attached to a rotatable jib. Within this general category of cranes there exist **devices** with multiple degrees of freedom including

variable load-line length and variable jib length. These...

...a rigid jib. The other end of the jib is attached to a direct drive **motor** for generating **rotational** motion. A general approach is presented for determining the **open** -loop trajectories for the jib **rotation** for accomplishing fixed-time, point-to-point, residual oscillation free, symmetric maneuvers. These residual oscillation...

12/3,K/5 (Item 5 from file: 6)

DIALOG(R)File 6:NTIS

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1852953 NTIS Accession Number: PB95-150488

**Test Structures for Determining Design Rules for
Microelectromechanical-Based Sensors and Actuators**

(Final rept)

Zincke, C. ; Gaitan, M. ; Zaghloul, M. E. ; Linholm, L. W.

National Inst. of Standards and Technology (EEEL), Gaithersburg, MD.
Semiconductor Electronics Div.

Corp. Source Codes: 101503002

1994 7p

Languages: English Document Type: Journal article

Journal Announcement: GRAI9506

Pub. in Proceedings of Institute of Electrical and Electronics Engineers
International Conference on Microelectronic Test Structures, San Diego,
CA., March 22-24, 1994, v7 p44-50.

NTIS Prices: Not available NTIS

... through openings in the passivation glass. These test structures measure the lateral undercutting and the **rotational** misalignment of **openings** in passivation oxide that are used to make the microelectromechanical **devices**, and give information for the layout, and proximity to circuits of the microelectromechanical devices. Two...

12/3,K/6 (Item 6 from file: 6)

DIALOG(R)File 6:NTIS

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1793820 NTIS Accession Number: DE94003051

Pipe weld crown removal device

(Patent Application)

Sword, C. K. ; Sette, P. J.

Westinghouse Electric Corp., West Mifflin, PA.

Corp. Source Codes: 004097000; 6927400

Sponsor: Department of Energy, Washington, DC.

Report No.: PAT-APPL-7-765 278

Filed Jan 19 14p

Languages: English Document Type: Patent

Journal Announcement: GRAI9411; ERA9418

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NTIS Prices: PC N03/MF A04

This invention is comprised of a **device** that provides for grinding down

the crown of a pipe weld joining aligned pipe sections...
... that the weld is substantially flush with the pipe sections joined by the weld. The **device** includes a cage assembly comprising a pair of spaced cage rings adapted to be mounted...

... for individually mounting respective grinding wheels. Each end of the support shafts is mounted for **rotation** in a bearing assembly housed within a radially directed **opening** in a corresponding one of the cage rings so as to provide radial movement of the associated **shaft**, and thus of the associated grinding wheel, towards and away from the weld. A first ...

...cage assembly around the pipe sections while a second drive unit, driven by a common **motor**, provides rotation of the grinding wheels.

12/3,K/7 (Item 7 from file: 6)

DIALOG(R)File 6:NTIS

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1541731 NTIS Accession Number: NTN90-0923

Production of Fish Blocks from Cod and Pollock Trimmings

(NTIS Tech Note)

National Oceanic and Atmospheric Administration, Washington, DC.

Corp. Source Codes: 031813000

Sponsor: Department of Commerce, Washington, DC.

Nov 90 1p

Languages: English

Journal Announcement: GRAI9102

FOR ADDITIONAL INFORMATION: Contact: NOAA/ORTA, CS/RT, Suitland Professional Center (SPC), Room 307, Suitland, MD 20233; (301) 763-4240.

NTIS Prices: Not available NTIS

...a belt type, was equipped with either 1-mm, 2.5-mm, or 5-mm **openings**, the other, a **rotating** paddle type, was equipped with screen **openings** of 2.4-mm, 3.2-mm, or 4.8-mm. This **device** was very effective in removing codworms from minced cod flesh. No intact codworms were found...

12/3,K/8 (Item 8 from file: 6)

DIALOG(R)File 6:NTIS

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1443645 NTIS Accession Number: AD-D014 043/4

Anti-Rotation Locking Device for Fasteners

(Patent)

Kushnick, S. B.

Department of the Air Force, Washington, DC.

Corp. Source Codes: 000260000; 109850

Report No.: PAT-APPL-7-112 162; PATENT-4 781 502

Filed 26 Oct 87 patented 1 Nov 88 5p

Languages: English Document Type: Patent

Journal Announcement: GRAI8916

Supersedes PAT-APPL-7-112 162.

This Government-owned invention available for U.S. licensing and, possibly, for foreign licensing. Copy of patent available Commissioner of Patents, Washington, DC 20231 \$1.50.

NTIS Prices: Not available NTIS

Descriptors: Locking fastener **devices**; *Patents; Bottom; Fastenings;

Matching; **Openings** ; Parts; **Rotation** ; Control; Screw threads; Slots;
Surfaces; Teeth; Vibration

12/3,K/9 (Item 9 from file: 6)

DIALOG(R)File 6:NTIS

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1377043 NTIS Accession Number: N88-21195/8

Some Highlights on ROSAT Mechanisms

Pawlowski, P. ; Heimerdinger, H.

Deutsche Forschungs- und Versuchsanstalt fuer Luft- und Raumfahrt e.V.,
Cologne (Germany, F.R.).

Corp. Source Codes: 062739000; D0696939

Sponsor: National Aeronautics and Space Administration, Washington, DC.

cDec 87 5p

Languages: English

Journal Announcement: GRAI8817; STAR2614

In Esa, Proceedings of the 3rd European Space Mechanisms and Tribology
Symposium p 21-25.

NTIS Prices: (Order as N88-21191/7, PC A14/MF A01)

... avoid contamination of the gold coated X-ray mirrors before use. In
orbit it is **opened** by a pyrotechnical **device** /kick spring, by a 90 deg
rotation and acts as a sun shade.

12/3,K/10 (Item 10 from file: 6)

DIALOG(R)File 6:NTIS

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1374509 NTIS Accession Number: N88-20491/2

Modelling and Control of an Annular Momentum Control Device

Downer, J. R. ; Johnson, B. G.

SatCon Technology Corp., Cambridge, MA.

Corp. Source Codes: 091390000; SC739580

Sponsor: National Aeronautics and Space Administration, Washington, DC.

Report No.: NAS 1.26:4138; NASA-CR-4138

Apr 88 111p

Languages: English

Journal Announcement: GRAI8816; STAR2613

Prepared in Cooperation with Draper (Charles Stark) Lab., Inc.,
Cambridge, Mass.

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Springfield, VA, 22161, USA.

NTIS Prices: PC A06/MF A01

...momentum storage device supported on magnetic bearings are documented.
The control challenge posed by this **device** lies in its dynamics being
such a strong function of flywheel **rotational** speed. At high **rotational**
speed, this can lead to **open** loop instabilities, resulting in
requirements for minimum and maximum control bandwidths and gains for the
...

12/3,K/11 (Item 11 from file: 6)

DIALOG(R)File 6:NTIS

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1065771 NTIS Accession Number: DE82007304

Radioactive Hot-Cell Access-Hole Decontamination Machine

(Patent Application)

Department of Energy, Washington, DC.

Corp. Source Codes: 052661000

Sponsor: Department of Energy, Washington, DC.

Report No.: PAT-APPL-6-251 643

Filed 6 Apr 81 16p

Languages: English Document Type: Patent

Journal Announcement: GRAI8401; NSA0700

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NTIS Prices: PC A02/MF A01

... a shielding door, with a door opening and closing mechanism, for uncovering and covering the **opening**. The housing contains a **shaft** which has an apparatus for **rotating** the **shaft** and a **device** for independently translating the **shaft** from the housing through the opening and access hole into the hot cell chamber. A...

... or other disks, with an arrangement for releasably attaching it to the end of the **shaft**, circumferentially cleans the access hole wall of radioactive contamination and thereafter detaches from the **shaft** to fall into the hot cell chamber. (ERA citation 07:047661)

12/3,K/12 (Item 12 from file: 6)

DIALOG(R)File 6:NTIS

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0993036 NTIS Accession Number: DE82018088

Study to Determine Feasibility of Developing a Mechanically Operated, Surface-Controlled Deviation Device for Directional Drilling. Final Report

Russell, L. R.

Russell (Larry) and Associates, Inc., Houston, TX.

Corp. Source Codes: 008716000; 9511699

Sponsor: Department of Energy, Washington, DC.

Report No.: DOE/BC/10175-8

Jul 82 123p

Languages: English

Journal Announcement: GRAI8303; NSA0700

Portions of document are illegible.

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NTIS Prices: PC A06/MF A01

... practicality, capability and possible improvements. A reasonable potential for improvement exists both for bent sub **devices** for non-**rotating** drillstrings and for **expandable** blade stabilizers for **rotating** strings. A new design is shown for one of each type of tool. Both new...

12/3,K/13 (Item 13 from file: 6)
DIALOG(R)File 6:NTIS
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0878902 NTIS Accession Number: N81-15683/8/XAB

Instruments and Attachments for Electronystagmography

Mironenko, Y. T. ; Vilenskiy, A. A.

National Aeronautics and Space Administration, Washington, DC.

Corp. Source Codes: 011249000; NC452981

Report No.: NASA-TM-76365

Sep 80 6p

Languages: English Document Type: Translation

Journal Announcement: GRAI8111; STAR1906

Transl. By Scientific Translation Service, Santa Barbara, Calif. Original
DOC. Prep. By Leningrad Sci. Res. Inst. Of Diseases of the Ear, Throat,
Nose and Speech. Transl. Into English from Zh. Usnykh Nosovykh I Gorlovykh
Bolez. (USSR), No. 3, 1980 p 79-81.

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customers); (703)605-6000 (other countries); fax at (703)321-8547; and
email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road,
Springfield, VA, 22161, USA.

NTIS Prices: PC A02/MF A01

A portable set of instruments and **devices** was developed which makes it
possible to record spontaneous nystagmus with **open** and closed eyes.
Rotational , caloric, position, and pressure nystagmus under any
conditions may also be recorded.

12/3,K/14 (Item 14 from file: 6)
DIALOG(R)File 6:NTIS
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0707870 NTIS Accession Number: UCID-17730/XAB

**Computer Module for One Step Dynamic Response of an Axisymmetric or Plane
Linear Elastic Thin Shell**

Goudreau, G. L.

California Univ., Livermore. Lawrence Livermore Lab.

Corp. Source Codes: 9500007

Sponsor: Department of Energy.

Feb 78 17p

Journal Announcement: GRAI7818; NSA0300

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customers); (703)605-6000 (other countries); fax at (703)321-8547; and
email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road,
Springfield, VA, 22161, USA.

NTIS Prices: PC A02/MF A01

... thin shell theory of Kraus with shear deformation. The finite element
formulation utilizes piecewise linear **expansions** of **membrane** and
transverse displacements as well as the **rotation** . Utilizing the one point
quadrature of Hughes, the method is accurate in the thin shell...

12/3,K/15 (Item 15 from file: 6)
DIALOG(R)File 6:NTIS
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0649445 NTIS Accession Number: AD-D004 078/2/XAB

Expanding Tool for Nondestructive Inspection of Flexible Wire Rope

(Patent)

Bachman, J. L. ; Krafft, J. M.

Department of the Navy Washington D C

Corp. Source Codes: 110050

Report No.: PAT-APPL-704 155; PATENT-4 022 057

Filed 12 Jul 76 patented 10 May 77 5p

Document Type: Patent

Journal Announcement: GRAI7722

Supersedes PAT-APPL-704 155-76, AD-D003 034.

This Government-owned invention available for U.S. licensing and, possibly, for foreign licensing. Copy of patent available Commissioner of Patents, Washington, D. C. 20231 \$0.50.

NTIS Prices: Not available NTIS

... in position in a frame by two grips such as gripper pliers. One grip is **rotated** relative to the other thereby reverse-twisting and **opening** the rope strands. Visual observation will reveal any damaged strand wires. The **device** is provided with mechanical stops to prevent over-twisting which may damage the wire rope...

12/3,K/16 (Item 16 from file: 6)

DIALOG(R)File 6:NTIS

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0548344 NTIS Accession Number: AD-D002 335/8/XAB

Variable Orifice Gas Metering Assembly for Aircraft Bomb Rack Gas System

(Patent Application)

Hoffman, C.

Department of the Air Force Washington D C

Corp. Source Codes: 109850

Report No.: PAT-APPL-649 108

Filed 14 Jan 76 9p

Document Type: Patent

Journal Announcement: GRAI7612

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NTIS Prices: PC A02/MF A01

... insertable into system gas flow conduits in a manner that makes an opening through the **device** an integral part of the gas flow conduit. A portion of the **device** can be **rotated** to present varying amounts of transverse **opening** to the gas flow path. The **rotatable** portion is mounted on a positioning fixture that is keyed to a receptacle in the...

12/3,K/17 (Item 17 from file: 6)

DIALOG(R)File 6:NTIS

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0083144 NTIS Accession Number: AD-606 636/XAB

Fiber Optics Image Device

(Final rept. for Apr 62-Jul 63)

Capellaro, D. F.

Optics Technology Inc Belmont Calif

Corp. Source Codes: 888888888

Report No.: RADC-TDR64 217

Aug 64 2p

Journal Announcement: USGRDR6501

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NTIS Prices: PC A02

... the construction of equipment for the suitable manipulation of fiber layers to form an image **device**. Three fabrication techniques, (1) **rotating** substrate, (2) **expanding** substrate, and (3) **expanding**-contracting, were investigated. A machine was designed and constructed for the production of fiber layers...

12/3,K/18 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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05338626 E.I. No: EIP99084751836

Title: Extension of the epitaxial shadow mask MBE technique for the monolithic integration and in situ fabrication of novel device structures

Author: Hilburger, U.; Fix, W.; Mayer, R.; Geisselbrecht, W.; Malzer, S.; Velling, P.; Prost, W.; Tegude, F.J.; Doehler, G.H.

Corporate Source: Universitaet Erlangen-Nuernberg, Erlangen, Ger

Conference Title: Proceedings of the 1998 10th International Conference on Molecular Beam Epitaxy (MBE-X)

Conference Location: Cannes Conference Date: 19980831-19980904

E.I. Conference No.: 55244

Source: Journal of Crystal Growth v 201 1999. p 574-577

Publication Year: 1999

CODEN: JCRGAE ISSN: 0022-0248

Language: English

...Abstract: growth stopped while doping at a certain angular position) or the flash-doping technique (continuous **rotation** and growth with dopant shutters **open** in a certain angular window only). As an extension for **devices** where more than two selective contacts are required, an enhanced version of the shadow mask...

12/3,K/19 (Item 2 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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05301167 E.I. No: EIP99064697972

Title: Method of strong focusing

Author: Shapiro, V.E.

Corporate Source: TRIUMF, Vancouver, BC, Can

Conference Title: Proceedings of the 1997 17th Particle Accelerator Conference, PAC-97

Conference Location: Vancouver, BC, CAN Conference Date: 19970512-19970516

E.I. Conference No.: 55135

Source: Proceedings of the IEEE Particle Accelerator Conference v 2 1998. p 1368-1370

Publication Year: 1998
CODEN: PIACET
Language: English

...Abstract: is used throughout for strong focusing in systems like beam transport, accelerators, and traps, the **rotation** in such **devices** **opens** up new ways for focusing and trapping not only in a point or an axis...

12/3,K/20 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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05017433 E.I. No: EIP98054210044
Title: Device for measuring relative angular displacement
Author: McCabe, R.P.; Kohles, S.S.; Chelikani, S.V.; Vanderby, R. Jr.
Corporate Source: Univ of Wisconsin, Madison, WI, USA
Source: Journal of Biomechanical Engineering, Transactions of the ASME v 120 n 2 Apr 1998. p 299-302
Publication Year: 1998
CODEN: JBENDY ISSN: 0148-0731
Language: English

...Abstract: to measure relative segmental rotations resulting from torsional loadings locally is described. To measure these **rotations**, we fabricated a planar spatial linkage (**open** -loop kinematic chain) requiring only one **rotational** displacement transducer. This paper describes this **device**, defines its kinematics, and examines its accuracy. (Author abstract) 19 Refs.

12/3,K/21 (Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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04844605 E.I. No: EIP97103862853
Title: Calcium ion current from an extracellular electrolyte toward a channel opening in an insulating membrane : Quantitative model with rotational symmetry
Author: Novak, Jaroslav P.
Corporate Source: Technologie et IREQ, Varennes, Que, Can
Source: IEEE Transactions on Biomedical Engineering v 44 n 10 Oct 1997. p 940-947
Publication Year: 1997
CODEN: IEBEAX ISSN: 0018-9294
Language: English

Title: Calcium ion current from an extracellular electrolyte toward a channel opening in an insulating membrane : Quantitative model with rotational symmetry

12/3,K/22 (Item 5 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
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04678008 E.I. No: EIP97043634926
Title: Inventions
Author: Kitajckij, V.
Corporate Source: VNII Gosudarstvennoj Patentnoj Ekspertizy, Moscow,

Russia

Source: Metallurg n 1 Jan 1994. p 34-35

Publication Year: 1994

CODEN: METGA3 ISSN: 0026-0827

Language: Russian

...Abstract: quality has been offered. Machine for centrifugal casting with improved service life has been developed. **Device** for producing the sleeves in **centrifugal** mold allowing to **expand** technological potentialities has been developed. Method for manufacturing the bimetal plain bearing with improved antifriction...

12/3,K/23 (Item 6 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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04381523 E.I. No: EIP96043137275

Title: Exploring polysilicon micromotors for data storage micro disks

Author: Mourlas, N.J.; Stark, K.C.; Mehregany, M.; Phillips, S.M.

Corporate Source: Case Western Reserve Univ, Cleveland, OH, USA

Conference Title: Proceedings of the 1995 9th Annual International Workshop on Micro Electro Mechanical Systems

Conference Location: San Diego, CA, USA Conference Date: 19960211-19960215

E.I. Conference No.: 44519

Source: Proceedings of the IEEE Micro Electro Mechanical Systems (MEMS) 1996. IEEE, Piscataway, NJ, USA, 96CH35856. p 198-203

Publication Year: 1996

CODEN: PMEME5

Language: English

...Abstract: micromotors for data storage. The polysilicon micromotors examined here are applied as optically-read, ROM **devices**, with data encoded on the surface of the rotor. Encoding is achieved by etching pits in the surface of the rotor during **motor** fabrication using RIE. The rotor surface is divided into sectors, each containing tracks encoded for **motor** diagnostics and data retrieval, providing a mechanism for evaluation of **motor** dynamics and data storage quality at various radial positions. An open-loop controller has been...

...be read-out via discrete sampling of an optical signal. The controller successfully drives the **motor** with 12% variation in **rotational** speed. **Open** -loop control has been sufficient for reliable data retrieval of bit diameters as small as...

12/3,K/24 (Item 7 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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04198198 E.I. No: EIP95072763285

Title: Coulometry of a mass-transfer limited reaction with a membrane-covered rotating disk electrode

Author: Fedkiw, Peter S.; Song, Shihua; Sharma, Sanjay; Ye, Jian-Hui

Corporate Source: North Carolina State Univ, Raleigh, NC, USA

Source: Journal of the Electrochemical Society v 142 n 6 Jun 1995. p 1909-1914

Publication Year: 1995

CODEN: JESOAN ISSN: 0013-4651

Language: English

Identifiers: Mass transfer limited reaction; **Membrane** covered **rotating** disk electrode; Convective diffusion equation; **Open** circuit condition; Transient coulombs; Steady state current; Reactant diffusivity; Partition coefficient

12/3,K/25 (Item 8 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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04181494 E.I. No: EIP95012534431

Title: Piezoelectric harmonic motor

Author: King, Tim; Xu, Wei; Thornley, John

Corporate Source: Univ of Birmingham, Birmingham, Engl

Conference Title: Proceedings of the Joint Hungarian - British International Mechatronics Conference

Conference Location: Budapest, Hung Conference Date: 19940921-19940923

E.I. Conference No.: 42400

Source: Proc Jt Hung Br Int Mechatronics Conf 1994. Computational Mechanics Publ. p 411-417

Publication Year: 1994

Language: English

...Abstract: amplifying structures and linking them to the piezoelectric stacks it is possible to produce actuating **devices** with output displacements sufficient for a wide range of engineering applications. This paper describes one...

...used as the wave generator of a harmonic gear drive. This yields an externally commutated **motor** which can be driven like a traditional stepping- **motor** for **open** -loop applications and which gives a very fine **rotational** increment (or 'step'). (Author abstract) 20 Refs.

12/3,K/26 (Item 9 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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03619108 E.I. No: EIP92020409793

Title: Selection of optimum distance between precondensation device and separator

Author: Sinaiskii, E.G.; Nikiforov, A.N.; Shevelev, D.I.

Source: Chemical and Petroleum Engineering (English translation of Khimicheskoe i Neftyanoe Mashinostroenie) v 27 n 3-4 Nov 1991. p 117-119

Publication Year: 1991

CODEN: CPTEAW ISSN: 0009-2355

Language: English

...Abstract: stream in the separator to the quantity entering it. As a rule, the following precondensation **devices** (PCD) are installed before the separator: throttle: heat exchanger and **centrifugal expander**. A design of a separator with a strong-type liquid trap packing (a pack of...

12/3,K/27 (Item 10 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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03553570 E.I. Monthly No: EI9302013900

Title: Solution of the end problem of a liquid-filled cylindrical acoustic waveguide using a biorthogonality principle.

Author: Albers, W. F.; Scarton, H. A.

Corporate Source: General Electric Co, Schenectady, NY, USA

Source: Journal of Vibration and Acoustics, Transactions of the ASME v 114 n 3 Jul 1992 p 425-431

Publication Year: 1992

CODEN: JVACEK ISSN: 1048-9002

Language: English

...Abstract: acoustic waves are considered to be driven by a steady periodic motion due to the **rotationally** symmetric deflection of an end plate or **membrane**. A series **expansion** of the waveguide eigenmodes is used to construct the solution for the motion anywhere within...

...shown to be directly calculable in terms of axial velocity and radial shear at the **driver** face. Also, results of Galerkin solutions, based on **driver** axial velocity and zero radial velocity, are given for comparison. (Author abstract)

12/3,K/28 (Item 11 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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02956183 E.I. Monthly No: EIM9009-035659

Title: Joint ASCE/ASME Applied Mechanics, Biomechanics, and Fluids Engineering Conference.

Author: Anon (Ed.)

Conference Title: Joint ASCE/ASME Applied Mechanics, Biomechanics, and Fluids Engineering Conference

Conference Location: San Diego, CA, USA Conference Date: 19890709

E.I. Conference No.: 13251

Source: American Society of Mechanical Engineers (Paper) 1989. Publ by American Soc of Mechanical Engineers (ASME), New York, NY, USA. 377p

Publication Year: 1989

CODEN: ASMSA4 ISSN: 0402-1215

Language: English

...Abstract: model, constrained multibody system dynamics, sound radiation from beams, elastic stress analysis, free vibrations, thermal **expansion** of composite materials, **membrane** shell, elastic plates bending, **centrifugal** pump casing wear, and steam generator tube wear.

12/3,K/29 (Item 12 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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02915090 E.I. Monthly No: EI9006065909

Title: SF6 autoexpansion breaker: The correlation between magnetic arc control and critical current.

Author: Bernard, G.; Girard, A.; Malkin, P.; Scarpa, P.

Corporate Source: Merlin Gerin, Grenoble, Fr

Source: IEEE Transactions on Power Delivery v 5 n 1 Jan 1990 p 196-201

Publication Year: 1990

CODEN: ITPDE5 ISSN: 0885-8977

Language: English

...Abstract: possible to design SF//6 autoexpansion breakers which are free from critical currents. In these **devices**, which combine arc **rotation** in a magnetic field and thermal **expansion** of gas, critical currents can effectively occur if these effects are incorrectly created and combined...

12/3,K/30 (Item 13 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

02783937 E.I. Monthly No: EI8909096315

Title: Edge mode effect in the operations of waveguide twin-slab ferrite phase shifter.

Author: Helszajn, J.
Corporate Source: Heriot-Watt Univ, Edinburgh, Scotl
Source: IEE Proceedings, Part H: Microwaves, Antennas and Propagation v 136 n 3 Jun 1989 p 257-260
Publication Year: 1989
CODEN: IPHPE7 ISSN: 0950-107X
Language: English

...Abstract: of circular variables. This model may be of value in the design of practical wideband **devices**. The presence of counter- **rotating** magnetic fields at the two **open** faces of the ferrite region is also of note. The use of unequal oppositely magnetized...

12/3,K/31 (Item 14 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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02681067 E.I. Monthly No: EI8812120223

Title: E-PLANE FINLINE CIRCULATOR USING COUPLED H-PLANE TURNSTILE RESONATORS.

Author: McDonald, G.; Sutherland, D.
Corporate Source: Heriot-Watt Univ, Edinburgh, Scotl
Source: IEE Proceedings, Part H: Microwaves, Antennas and Propagation v 135 n 4 Aug 1988 p 279-281
Publication Year: 1988
CODEN: IPHPE7 ISSN: 0950-107X
Language: English

...Abstract: directly coupled evanescent junction of three E-plane WR42 waveguides symmetrically loaded by H-plane **open** gyromagnetic resonators. The degenerate counter- **rotating** eigenvalues of the **device** correspond to the even solution of two coupled quarterwave long resonators; the junction is separately...

12/3,K/32 (Item 15 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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02559493 E.I. Monthly No: EIM8804-022844

Title: TEST RESULTS OF A HIGH PERFORMANCE FIBER-OPTIC ROTATION SENSOR.

Author: Bielas, M. S.; Stokes, L. F.; Herdman, C. T.
Corporate Source: Sperry Corp, Phoenix, AZ, USA
Conference Title: Fiber Optic Gyros: 10th Anniversary Conference.
Conference Location: Cambridge, MA, USA Conference Date: 19860924

E.I. Conference No.: 11003
Source: Proceedings of SPIE - The International Society for Optical Engineering v 719. Publ by SPIE, Bellingham, WA, USA p 81-86
Publication Year: 1987
CODEN: PSISDG ISSN: 0277-786X ISBN: 0-89252-754-4
Language: English

Abstract: The test results of a high performance, **open** -loop, all-fiber-optic **rotation** sensor are reported. The **device** used a low-coherence superradiant diode as the optical source with a polarization-maintaining sensing...

12/3,K/33 (Item 16 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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02097537 E.I. Monthly No: EIM8606-039296
Title: GASIFICATION OF CARROT FIBRE IN A CAST REFRACTORY MICRO-GASIFIER.
Author: Reines, R. G.
Corporate Source: Open Univ, Milton Keynes, Engl
Conference Title: Thermochemical Processing of Biomass.
Conference Location: Birmingham, Engl Conference Date: 19830400
E.I. Conference No.: 06061
Source: Publ by Butterworths, London, Engl and Boston, MA, USA p 165-176
Publication Year: 1984
ISBN: 0-408-01469-5
Language: English

Abstract: It is concluded that carrot fibre derived from a whole crop **centrifugal** fractionation **device** can be gasified in an **open** top, unrestricted bore, moving, packed bed gas refractory micro-gasifier. The energy efficiency of conversion...

12/3,K/34 (Item 17 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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01998686 E.I. Monthly No: EI8608070377 E.I. Yearly No: EI86033774
Title: ELASTIC CRACK OPENING DISPLACEMENTS AND ROTATIONS IN THROUGH-CRACKS IN SPHERES AND CYLINDERS UNDER MEMBRANE AND BENDING LOADING.
Author: Miller, A. G.
Corporate Source: CEBG, Berkeley, Engl
Source: Engineering Fracture Mechanics v 23 n 4 1986 p 631-648
Publication Year: 1986
CODEN: EFMEAH ISSN: 0013-7944
Language: ENGLISH

Title: ELASTIC CRACK OPENING DISPLACEMENTS AND ROTATIONS IN THROUGH-CRACKS IN SPHERES AND CYLINDERS UNDER MEMBRANE AND BENDING LOADING.

12/3,K/35 (Item 18 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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01989114 E.I. Monthly No: EI8607063489 E.I. Yearly No: EI86093693

Title: BATCHER FOR POWDER VAPORIZED IN VUP-4 VACUUM STATION.
Author: Semenov, A. P.; Khozonkhonova, V. M.
Corporate Source: Acad of Sciences of the USSR, Ulan-Ude, USSR
Source: Instruments and Experimental Techniques (English Translation of Pribery I Tekhnika Eksperimenta) v 28 n 5 pt 2 Sep-Oct 1985 p 1148-1149
Publication Year: 1985
CODEN: INETAK **ISSN:** 0020-4412
Language: ENGLISH

...Abstract: hopper is described. The amount of powder fed to the vaporizers is controlled by the **rotation** speed of the hopper and the size of the **opening** in its lateral surface. The hopper is **rotated** by a pendulum **device** used in the VUP-4 to rotate the specimen stand. (Author abstract) 1 ref.

12/3,K/36 (Item 19 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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01932780 E.I. Monthly No: EI8601008322 E.I. Yearly No: EI86125089
Title: FUNDAMENTALS OF AIR MOVING SYSTEMS.
Author: WINCHESTER, BERNARD
Corporate Source: GOULD ELECTRIC MOTOR DIV
Source: HEAT AIR COND J V 55 N 642 OCT 1985 P 27-29
Publication Year: 1985
CODEN: HACJBF **ISSN:** 0307-7950
Language: ENGLISH

Abstract: THERE ARE ONLY THREE BASIC TYPES OF AIR MOVING **DEVICES** ALTHOUGH THERE ARE NUMEROUS VARIATIONS WITHIN EACH TYPE. THE BEST KNOWN ARE: (1) THE AXIAL...

...FORM OF AN OPEN-ENDED DRUM, WITH BLADES FORMED IN THE PERIPHERY. AIR ENTERS THE **OPEN** END OF THE DRUM IN LINE WITH THE AXIS OF **ROTATION** AND IS THROWN OUT THROUGH THE BLADES; AND (3) THE CROSSFLOW OR TANGENTIAL FAN, ALSO...

...A 'TURBO-FAN' AND OCCASIONALLY 'BLOWER'. THESE ARE USUALLY SUPPLIED AS COMPLETE UNITS, INCLUDING A **MOTOR** WITH CHARACTERISTICS DEVELOPED TO EXPLOIT THE DESIGNED CHARACTERISTICS OF THE FAN WHEEL.

12/3,K/37 (Item 20 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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01831458 E.I. Monthly No: EI8512113898 E.I. Yearly No: EI85019898
Title: STUDY OF FLOW CONTROL DEVICE IN THE FORM OF AN ANNULAR RECESS IN THE COMPRESSOR CASE.
Author: Ershov, V. N.; Efimenko, A. P.; Nezym, V. Yu.
Source: Soviet Aeronautics (English translation of Izvestiya VUZ, Aviatsionnaya Tekhnika) v 27 n 1 1984 p 104-105
Publication Year: 1984
CODEN: SOAEA4 **ISSN:** 0038-5255
Language: ENGLISH

Abstract: In spite of current success in the study of **rotating** stall, the development of effective methods and **devices** for **expanding** the stall-free range of axial compressor operation remains an urgent problem.

Promising in this...

12/3,K/38 (Item 21 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)
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01530096 E.I. Monthly No: EI8406056239 E.I. Yearly No: EI84073116
Title: FOUR-WAY/EIGHT-WAY MULTIPLEXING THIN FILM BUBBLE DETECTORS.
Author: Allen, J. W.; Desouches, A. M.; Hannon, D. M.; Tao, L. J.
Source: IBM Technical Disclosure Bulletin v 26 n 3B Aug 1983 p 1734-1735
Publication Year: 1983
CODEN: IBMTAA ISSN: 0018-8689
Language: ENGLISH

...Abstract: way multiplexing of thin film bubble detectors is effected by the use of thick permalloy **expanders**, thin permalloy detectors, four-phase 90 DEGREE **rotation** and bridge wiring. **Devices** are shown which yield a high snr in a time multiplex operation.

12/3,K/39 (Item 22 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)
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01508534 E.I. Monthly No: EI8404036367 E.I. Yearly No: EI84105293
Title: DEVELOPMENT AND CALIBRATION OF A RAINFALL SIMULATOR.
Author: Pall, R.; Dickinson, W. T.; Beals, D.; McGirr, R.
Corporate Source: Univ of Guelph, Sch of Engineering, Guelph, Ont, Can
Source: Canadian Agricultural Engineering v 25 n 2 Winter 1983 p 181-187
Publication Year: 1983
CODEN: CAEOAI ISSN: 0045-432X
Language: ENGLISH

Abstract: A rainfall simulator involving a large-capacity wide-angle spray nozzle and a spray interception **device** has been developed for soil erosion research. A **rotating** disk with multiple variable aperture **openings** has been used for spray interception. Calibration tests show that the simulated rainfall intensity and...

12/3,K/40 (Item 23 from file: 8)
DIALOG(R) File 8: Ei Compendex(R)
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01220813 E.I. Monthly No: EIM8207-003939
Title: NON-EVACUATED RECEIVERS.
Author: Treadwell, George
Corporate Source: Sandia Natl Lab, Albuquerque, NM, USA
Conference Title: Line - Focus Solar Thermal Energy Technology Development Conference.
Conference Date: 19800909
E.I. Conference No.: 00042
Source: Publ by Sandia Natl Lab (SAN80-1666), Albuquerque, NM, USA.
Available from NTIS, Springfield, Va, USA p 358-368
Publication Year: 1981
Language: English

Identifiers: OPTICAL RECEIVERS; NONEVACUATED RECEIVERS; CONVERSION;
OPTICAL ENERGY; THERMAL ENERGY; LINEAR **EXPANSION** ; **ROTATION** **DEVICES** ;

OPTICAL DEVICES ; SOLAR COLLECTORS

12/3,K/41 (Item 24 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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00498345 E.I. Monthly No: EI7512080402 E.I. Yearly No: EI75023299

Title: APPLICATIONS OF STEPPING MOTORS.

Author: Anon

Source: Philips Technical Review v 35 n 4 Sep 1975 p 104-105

Publication Year: 1975

CODEN: PTREAN ISSN: 0031-7926

Language: ENGLISH

Abstract: A stepping **motor** responds to a current pulse with a small, well-defined angular rotation. A stepping **motor** is therefore a useful **device** for coupling digital data processing with machine tools. Since it accurately reproduces angular **rotations**, it can be used in **open** control systems, i. e. systems without feedback. The speed can be adjusted over a wide...

...Stepping motors have many and various applications. Three typical examples are given in which the **motor** speed is required to be accurately proportional to the number of pulses supplied per second...

12/3,K/42 (Item 25 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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00304584 E.I. Monthly No: EI7305023565 E.I. Yearly No: EI73019945

Title: Precise Simulation of Image Transmission Systems by Optical Convolution Using a Rotating Slit of Specified Shape.

Title: DIE PRAEZISE SIMULATION VON BILDUEBERTRAGUNGSSYSTEMEN DURCH EINE OPTISCHE FALTUNG MIT EINEM ROTIERENDEN SPALT VORGESCHRIEBENER FORM.

Author: Pfeiler, Manfred; Theil, Guenter

Corporate Source: Siemens, Erlangen, Ger

Source: NTZ Nachr Z, Commun J v 25 n 9 Sep 1972 p 405-408

Publication Year: 1972

Language: GERMAN

...Abstract: based on the principle of optical convolution. With the aid of an optical convolution integrator **device** and a **rotating opening** having a prescribed shape, the required convolution of the image input signal is obtained. 10...

12/3,K/43 (Item 26 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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00200391 E.I. Monthly No: EI72X004778

Title: Basic trends in the development of turboexpander construction in the Soviet Union.

Author: ANTIPENKOV, B. A.; BELYAKOV, V. P.; DAVYDOV, A. B.

Source: Chemical and Petroleum Engineering (English translation of Khimicheskoe i Neftyanoe Mashinostroenie) n 3-4 Mar-Apr 1970 p 323-7

Publication Year: 1970

CODEN: CPTEA ISSN: 0009-2355

Language: ENGLISH

...Abstract: been extended from 200 to 5 cu m/hr. All known types of positive displacement **expansion** engines (reciprocating, **rotational**, gear, screw, and **membrane**) are not competitive for this range of parameters. Therefore it is no longer necessary to...

12/3,K/44 (Item 27 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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00179939 E.I. Monthly No: EI71X167115

Title: Theory of impulse voltage transformers with a high degree of coupling and open ferromagnetic cores.

Author: ZHELTOV, K. A.

Source: Elektrichestvo n 11 Nov 1970 p 60-6

Publication Year: 1970

CODEN: ELEKA ISSN: 0013-5380

Language: RUSSIAN

...Abstract: this type of transformer, used for supplying the x-ray tubes, electron injection, and the **devices** for applied physics application can be considerably simplified if the **open** cores are regarded as ferromagnetic ellipsoids of **rotation** within a uniform magnetic field. Relatively simple equations can be obtained in this case for...

12/3,K/45 (Item 1 from file: 25)

DIALOG(R)File 25:Weldasearch

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00171867 151408

Device to interrupt a [laser] beam so that it impacts its target in an intermittent fashion (Dispositif d'obturation d'un faisceau devant frapper per intermittence un point determine).

AUTOMOBILES PEUGEOT; AUTOMOBILES CITROEN

European Patent Application 468 890 A1. Filed: 24 July 1991 (France 9009519, 25 July 1990). Publ: 29 Jan.1992. 9 fig., 10 claims.

PATENT (NUMBER,DATE): EP 468890 A1 19920129

APPLICATION DATE: 19910724

PRIORITY (NO, DATE): FR 19909519 19900725

PUBLICATION DATE: 19920129 DOCUMENT TYPE: Patent

LANGUAGE: French RECORD TYPE: Abstract

A mechanically driven **device** is claimed incorporating three **rotating** discs each having one machined **opening**, and a means of driving each disc so that periodically the holes align to allow...

12/3,K/46 (Item 1 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

08081684 Genuine Article#: 244EJ No. References: 19

Title: Kinematic magnetic resonance imaging of the upper cervical spine using a novel positioning device

Author(s): Karhu JO (REPRINT) ; Parkkola RK; Komu MES; Kormanen MJ; Koskinen SK

Corporate Source: TURKU UNIV HOSP,DEPT DIAGNOST RADIOL, KIINAMYLlynKATU

4-8/SF-20520 TURKU//FINLAND/ (REPRINT); UNIV TURKU,DEPT DIAGNOST
RADIOL/TURKU//FINLAND/
Journal: SPINE, 1999, V24, N19 (OCT 1), P2046-2056
ISSN: 0362-2436 Publication date: 19991001
Publisher: LIPPINCOTT WILLIAMS & WILKINS, 227 EAST WASHINGTON SQ,
PHILADELPHIA, PA 19106
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: a part of the whole cervical spine motion.

Objectives. To design and construct a positioning **device** that enables magnetic resonance imaging of the cervical spine in **rotation** , lateral bending, flexion, and extension in a horizontally **open** magnetic resonance scanner, and to define reference values for movements of the occiput (C0), the...

12/3,K/47 (Item 2 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

07809575 Genuine Article#: 210ZT No. References: 21
Title: The rotordynamic forces on an open-type centrifugal compressor impeller in whirling motion
Author(s): Yoshida Y (REPRINT) ; Tsujimoto Y; Ishii N; Ohashi H; Kano F
Corporate Source: OSAKA UNIV,GRAD SCH ENGN SCI, 1-3 MACHIKANEYAMA/OSAKA 5608531//JAPAN/ (REPRINT); HITACHI CONSTRUCT MACHINERY CO LTD,/IBARAKI/OSAKA 3000012/JAPAN/; KOUGAKUIN UNIV,/TOKYO 1638677//JAPAN/; NARA NATL COLL TECHNOL,/NARA 6391058//JAPAN/
Journal: JOURNAL OF FLUIDS ENGINEERING-TRANSACTIONS OF THE ASME, 1999, V121, N2 (JUN), P259-265
ISSN: 0098-2202 Publication date: 19990600
Publisher: ASME-AMER SOC MECHANICAL ENG, 345 E 47TH ST, NEW YORK, NY 10017
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: has been given to the rotordynamic forces on impellers, from the view point of the **shaft** vibration analysis. Previous experimental and analytical results have shown that the fluid-induced forces on...

...with shroud) centrifugal impellers in whirling motion contribute substantially to the potential destabilization of subsynchronous **shaft** vibrations. However, to date nothing is known of the rotordynamic forces on **open** -type (without shroud) **centrifugal** impellers. This paper examines the rotordynamic fluid forces on an **open** -type **centrifugal** compressor impeller in whirling motion. For an **open** -type impeller, the variation of the tip clearance due to the whirling motion is the...

...Experiments were performed to investigate the rotordynamic forces by direct measurement using a force balance **device** , and indirectly from the unsteady pressure on the casing wall over a range of whirl...

12/3,K/48 (Item 3 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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07405235 Genuine Article#: 161PX No. References: 32
Title: Defining optimum conditions for the ex vivo expansion of human umbilical cord blood cells. Influences of progenitor enrichment,

interference with feeder layers, early-acting cytokines and agitation of culture vessels

Author(s): Kohler T; Plettig R; Wetzstein W; Schaffer B; Ordemann R; Nagels HO; Ehninger G; Bornhauser M (REPRINT)

Corporate Source: UNIV HOSP CARL GUSTAV CARUS, MED CLIN 1, FETSCHERSTR 74/D-01307 DRESDEN//GERMANY/ (REPRINT); TECH UNIV DRESDEN, KLINIKUM CARL GUSTAV CARUS, MED KLIN 1/D-8027 DRESDEN//GERMANY//; IN VITRO SYST GMBH, OSTERODE//GERMANY/

Journal: STEM CELLS, 1999, V17, N1, P19-24

ISSN: 1066-5099 Publication date: 19990000

Publisher: ALPHAMED PRESS, ONE PRESTIGE PLACE, STE 290, MIAMISBURG, OH 45342-3758

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: Addition of megakaryocyte-derived growth and development factor to each growth factor cocktail improved the **expansion** results. Continuous **rotation** of culture vessels did not ameliorate the **expansion** rate of the analyzed subsets. Culture conditions separating stroma and HUCBC by a semipermeable **membrane** improved the expansion factors of CD34(+), CD34(+)/38(-), and CD34(+)/41(-) cells and CFUGM compared...

12/3,K/49 (Item 4 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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07100121 Genuine Article#: 124DM No. References: 24

Title: Beyond stents: Third-generation coronary devices

Author(s): Oesterle SN (REPRINT)

Corporate Source: STANFORD UNIV, MED CTR, H2103, 300 PASTEUR DR/STANFORD//CA/94305 (REPRINT); UNIV CALIF SAN FRANCISCO, STANFORD HLTH CARE, DEPT MED, DIV CARDIOVASC/STANFORD//CA/

Journal: ANNALS OF THORACIC SURGERY, 1998, V66, N3 (SEP), P1045-1049

ISSN: 0003-4975 Publication date: 19980900

Publisher: ELSEVIER SCIENCE INC, 655 AVENUE OF THE AMERICAS, NEW YORK, NY 10010

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: 1997) patients are still routinely referred for bypass grafting in large numbers. Why? Second-generation **devices** (directional coronary atherectomy, high-speed **rotational** atherectomy [Rotablator], and stents) have **expanded** the application of percutaneous catheter treatment of coronary disease. Specifically, highly eccentric lesions in large...

12/3,K/50 (Item 5 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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05547119 Genuine Article#: WF200 No. References: 35

Title: Endoprosthetic replacement following limb-sparing resection for bone sarcoma

Author(s): Damron TA (REPRINT)

Corporate Source: SUNY SYRACUSE, DEPT ORTHOPED, 550 HARRISON CTR, SUITE 100/SYRACUSE//NY/13202 (REPRINT)

Journal: SEMINARS IN SURGICAL ONCOLOGY, 1997, V13, N1 (JAN-FEB), P3-10

ISSN: 8756-0437 Publication date: 19970100

Publisher: WILEY-LISS, DIV JOHN WILEY & SONS INC 605 THIRD AVE, NEW YORK,

NY 10158-0012

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: replacement appears to be the most reproducibly successful prosthetic reconstruction, particularly when utilizing a cemented **rotating** -hinge **device** . **Expandable** prostheses may be the only alternative to **rotationplasty** or ablation in the young skeletally immature patient. Aseptic loosening and bone resorption are frequently ...

12/3,K/51 (Item 6 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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05022662 Genuine Article#: UZ978 No. References: 23

Title: A COLOR-ENHANCED AID FOR LOCATION OF THE TRANSVERSE HORIZONTAL OPENING AND CLOSING AXIS OF THE MANDIBLE

Author(s): ZUCCARI AG; ANDRES CJ; SIMPSON GW

Corporate Source: INDIANA UNIV,SCH DENT,1121 W MICHIGAN

ST/INDIANAPOLIS//IN/46202; INDIANA UNIV,SCH DENT/INDIANAPOLIS//IN/46202

Journal: JOURNAL OF PROSTHETIC DENTISTRY, 1996, V76, N2 (AUG), P181-186

ISSN: 0022-3913

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: This article describes the use of a **device** for assisting in identification of the direction of the are of **rotation** while locating the transverse horizontal **opening** and closing axis of the mandible. Translucent disks are mounted on the point of the...

12/3,K/52 (Item 7 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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02544593 Genuine Article#: LK433 No. References: 25

Title: PRODUCTION OF OSCILLATORY FLOW IN WIND TUNNELS

Author(s): ALASMI K; CASTRO IP

Corporate Source: SULTAN QABOOS UNIV,COLL ENGN,POB 32483/AL KHAD//OMAN/;

UNIV SURREY,DEPT CHEM ENGN/GUILDFORD GU2 5XH/SURREY/ENGLAND/

Journal: EXPERIMENTS IN FLUIDS, 1993, V15, N1 (JUN), P33-41

ISSN: 0723-4864

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: A method for producing oscillatory flow in **open** -circuit wind tunnels driven by **centrifugal** fans is described. Performance characteristics of a new **device** installed on two such tunnels of greatly differing size are presented. It is shown that...

12/3,K/53 (Item 8 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
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01975324 Genuine Article#: JQ897 No. References: 0

Title: THE DYNAMIC ASIF-BM TUBULAR EXTERNAL FIXATOR IN THE TREATMENT OF OPEN FRACTURES OF THE SHAFT OF THE TIBIA

Author(s): BARQUET A; MASSAFERRO J; DUBRA A; MILANS C; CASTIGLIONI O

Corporate Source: SARMIENTO 2369,APTO 301/MONTEVIDEO 11300//URUGUAY//; UNIV CLIN MONTEVIDEO/MONTEVIDEO//URUGUAY/

Journal: INJURY-BRITISH JOURNAL OF ACCIDENT SURGERY, 1992, V23, N7, P
461-466
ISSN: 0020-1383
Language: ENGLISH Document Type: ARTICLE (Abstract Available) (NO REFS
KEYED)

...Abstract: the tubes parallel to the bone axis, that is essential for
gliding, and adjustment of **rotation**. The results after treatment of
70 type II and III **open** tibial fractures with static ASIF and dynamic
ASIF-BM frames were analysed. Of the fractures...

...lesions in such fractures. The comparative study shows that axial
compression, using the ASIF-BM **device**, with early weight bearing,
gave a higher rate of union (97 per cent against 87...
...to play as a definitive mode of therapy for severe open fractures of the
tibial **shaft**.

12/3,K/54 (Item 9 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

01301865 Genuine Article#: GM326 No. References: 21
**Title: ROTATIONAL SPECTROSCOPY OF A MIXTURE OF THIIRANE AND HYDROGEN
BROMIDE - DETECTION AND CHARACTERIZATION OF A SHORT-LIVED COMPLEX
(CH₂)₂S - HBR IN A PULSED JET**
Author(s): LEGON AC; WALLWORK AL; WARNER HE
Corporate Source: UNIV EXETER, DEPT CHEM, STOCKER RD/EXETER EX4
4RJ/DEVON/ENGLAND/
Journal: JOURNAL OF THE CHEMICAL SOCIETY-FARADAY TRANSACTIONS, 1991, V87,
N20, P3327-3334
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: fast mixing nozzle in conjunction with a pulsed-nozzle, FT
microwave spectrometer. With the former **device** the reactive
components thiirane and hydrogen bromide remain separate until they
expand into the Fabry-Perot cavity of the latter. **Rotational**
constants A(o), B(o) and C(o), centrifugal distortion constants
DELTA-J, DELTA-JK...

12/3,K/55 (Item 10 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

01055386 Genuine Article#: FR679 No. References: 14
Title: NEW DEVICE FOR PERCUTANEOUS FRAGMENTATION OF PULMONARY EMBOLI
Author(s): SCHMITZRODE T; GUNTHER RW
Corporate Source: RHEIN WESTFAL TH AACHEN, DEPT DIAGNOST
RADIOL, PAUWELSSTR/D-5100 AACHEN//FED REP GER/
Journal: RADIOLOGY, 1991, V180, N1, P135-137
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: A new catheter system was designed for percutaneous fragmentation
of large pulmonary emboli. The **device** consists of an impeller
rotating at high speed at the center of a self- **expandable** basket at
the tip of a 7-F catheter. The highly flexible catheter was able...

12/3,K/56 (Item 11 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

00712027 Genuine Article#: EK136 No. References: 0

Title: EXTRACORPOREAL CIRCULATORY ASSISTANCE WITH CENTRIFUGAL PUMPS IN POSTCARDIOTOMY LOW-OUTPUT SYNDROME

Author(s): JAKOB H; STURER A; PALZER B; MAASS D; IVERSEN S; OELERT H

Corporate Source: UNIV KLIN MAINZ,HERZ THORAX & GEFASSCHIRURG
KLIN,LANGENBECKSTR 1/D-6500 MAINZ//FED REP GER/

Journal: HELVETICA CHIRURGICA ACTA, 1990, V57, N2, P365-372

Language: GERMAN Document Type: ARTICLE (Abstract Available) (NO REFS
KEYED)

Abstract: From 6/86 to 5/89 seven out of 1700 (0.4%) **open** heart patients had to be assisted with **centrifugal** pumps for postcardiotomy low cardiac output syndrome. In 4 cases a left ventricular assist **device** (LVAD) was used, one case each had a right ventricular assist device (RVAD), an extracorporeal...

12/3,K/57 (Item 1 from file: 63)

DIALOG(R)File 63:Transport Res(TRIS)

(c) fmt only 2003 Dialog Corp. All rts. reserv.

00681176 DA

TITLE: ELECTRONICALLY CONTROLLED TRACTION SYSTEMS WITH ELECTRIC MOTOR ACTUATION

AUTHOR(S): STALL, E; BOTTERILL, J; RICKELL, R

CORPORATE SOURCE: INSTITUTION OF MECHANICAL ENGINEERS, 1 BIRDCAGE WALK,
LONDON, SW1H 9JJ, UNITED KINGDOM

JOURNAL: XXIV FISITA CONGRESS. 7-11 JUNE 1992, LONDON. HELD AT THE AUTOM
OTIVE TECHNOLOGY SERVING SOCIETY. TECHNICAL PAPERS. TOTAL VEHICLE
DYNAMICS . VOLUME 1. (IMECHE NO. C389/467 AND FISITA NO. 925055)

Pag: 123-34

PUBLICATION DATE: 19920000 PUBLICATION YEAR: 1992

LANGUAGE: ENGLISH SUBFILE: IRRD (I)

IRRD DOCUMENT NUMBER: 870303

ISBN: 0-85298-834-6

DATA SOURCE: Transport Research Laboratory (TRL)

...ABSTRACT: mechanism, which uses balls worki ng on inclined tracks in the annular faces of opposing **expander** discs. Actuation is achieved mechanically, by **rotating** one of the discs relative to the other. The **expander** disc is **rotated** by an electric **motor** via a two-stage gear set. The actuating force, and thus the clutch torque, can be controlled very accurately by electronic contr ol of the electric **motor** . This POWRLOK actuating mechanism, together wi th a wet-plate clutch pack, is suitable for...

...differential . POWRLOK 4 has been developed for four-wheel drive vehicles, as a limited slip **device** for centre differentials. A relatively inexpensi ve version of POWRLOK 4 is available as a...

12/3,K/58 (Item 2 from file: 63)

DIALOG(R)File 63:Transport Res(TRIS)

(c) fmt only 2003 Dialog Corp. All rts. reserv.

00261096 DA

TITLE: MUFFLER CONSTRUCTION FOR MOTORCYCLES

AUTHOR(S): Lader, AN
CORPORATE SOURCE: Department of Commerce, Washington, DC, 20231,
SUPPLEMENTAL NOTES: Patent filed 5 November 1964
PUBLICATION DATE: 19000000
LANGUAGE: English SUBFILE: HRIS (H)
AVAILABILITY: United States Patent Office; 2021 Jefferson Davis Highway
; Arlington ; VA ; 22202
ORDER NUMBER: 3,346,071

...ABSTRACT: the discharge end of a motorcycle tailpipe to cause the pipe to act as an **expansion** -chamber muffler. An adjustment allows the **device** to be **rotated** to such a position that it minimizes back pressure when desired.--GJS

12/3,K/59 (Item 3 from file: 63)
DIALOG(R)File 63:Transport Res(TRIS)
(c) fmt only 2003 Dialog Corp. All rts. reserv.

00228967 DA
TITLE: EXPEDITING AND SIMPLIFYING SOIL EXPLORATION THROUGH DRILLING MUD
AUTHOR(S): Mohan, D; Sengupta, DP; Jain, GS
CORPORATE SOURCE: Central Building Research Inst /India/, /Symposium Site
Inv for Foundations,
SUPPLEMENTAL NOTES: pp 97-104, 9 FIG, 8 REF
PUBLICATION DATE: 19000000
LANGUAGE: English SUBFILE: HRIS (H)

...ABSTRACT: CASING PIPES AND THE SOIL IS RELATIVELY LESS DISTURBED. FOR OBTAINING SOIL SAMPLES A SIMPLE **DEVICE** HAS BEEN USED SO AS TO ENSURE A CONTINUOUS PENETRATION. THE SAMPLER **OPENS** ONLY AT THE DESIRED DEPTH BY **ROTATING** THE DRILL ROD AND IT HAS BEEN SUCCESSFULLY USED FOR RECOVERING UNDISTURBED SOIL SAMPLES FROM...

12/3,K/60 (Item 1 from file: 81)
DIALOG(R)File 81:MIRA - Motor Industry Research
(c) 2003 MIRA Ltd. All rts. reserv.

42611
Development of a High-Precision Standardised Process for Measuring the Efficiency of Transmission Elements
IERSWA D
FAT Schriftenreihe, No 53
October 1, 1986
Collation : (121 p, 71 fig, 18 ref)

Document Type: JOURNAL Language: GERMAN
Record Type: ABSTRACT
Supplier Record Type: AA

...determined with calibration data which are determined with the aid of a high-precision calibration **device** .

The calibration **device** works on the principle of a pendulum machine. By **expanding** conventional calibrating procedures, studies of the signal output of **rotating** metering shafts are also possible. (PC)

12/3,K/61 (Item 1 from file: 92)

DIALOG(R)File 92:IHS Intl.Stds.& Specs.
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00474187

**Measurement of Water Flow in Open Channels Part 6: Measuring Devices ,
Instruments and Equipment Part 6.3: Calibration of Rotating Element
Current-Meters in Straight Open Tanks ISO 3455: 1976**

DOCUMENT NUMBER: AS 3778.6.3

ISSUING ORGANIZATION: SAA - Standards Association Of Australia

DOCUMENT TYPE: Australia;Asia/Pacific

YEAR: 1992 00008 PAGES LANGUAGE: ENGLISH

**Measurement of Water Flow in Open Channels Part 6: Measuring Devices ,
Instruments and Equipment Part 6.3: Calibration of Rotating Element
Current-Meters in Straight Open Tanks ISO 3455: 1976**

12/3,K/62 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2003 Japan Science and Tech Corp(JST). All rts. reserv.

04717895 JICST ACCESSION NUMBER: 00A0952556 FILE SEGMENT: JICST-E

Osteodistractor for Narrow Mandibulars.

MORI HIROSHI (1); HIRANO AKIYOSHI (1); FUJII TOORU (1); SUZUKI HIROYUKI (2)

(1) Nagasaki Univ., Sch. of Med.; (2) Nagasaki Univ., Sch. of Dent.

Nippon Zugai Gakuganmen Geka Gakkaishi(Journal of the Japan Society of
Cranio-Maxillo-Facial Surgery), 2000, VOL.16,NO.2, PAGE.27-33, FIG.8,
TBL.1, REF.14

JOURNAL NUMBER: X0660ABI ISSN NO: 0914-594X

UNIVERSAL DECIMAL CLASSIFICATION: 616.314-089 616-007-08

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

...ABSTRACT: performed for overcompensation, a corrective appliance was
affixed to the mandibular denture, and an external **device** was
rotated backwards to revise excess **expansion** . Stabilization time at
the tubercle was limited to a short duration of 10 weeks. At...

12/3,K/63 (Item 2 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2003 Japan Science and Tech Corp(JST). All rts. reserv.

02652747 JICST ACCESSION NUMBER: 96A0121709 FILE SEGMENT: JICST-E

Rotation Input Device for Instruction Using Magnetic Resistance Elements.

NISHIHARA KAZUE (1); KOMIYA SEIJI (1); KATO MASAYUKI (1); KAMINAGA KEN'ICHI
(1)

(1) Kanagawa Inst. of Technology

Nippon Robotto Gakkaishi(Journal of the Robotics Society of Japan), 1995,
VOL.13,NO.8, PAGE.1210-1211, FIG.4, REF.6

JOURNAL NUMBER: Y0482AAO ISSN NO: 0289-1824

UNIVERSAL DECIMAL CLASSIFICATION: 681.327.2

LANGUAGE: English COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

...ABSTRACT: series on each three axes, but there exists no interfering

signals from the cross-sectional **rotation** . So it suggests that the **device** can be **expanded** into a real three dimensional one. (author abst.)

12/3,K/64 (Item 3 from file: 94)

DIALOG(R)File 94:JICST-EPlus

(c)2003 Japan Science and Tech Corp(JST). All rts. reserv.

01604195 JICST ACCESSION NUMBER: 92A0572079 FILE SEGMENT: JICST-E
Structure and Characteristics of a New Type of Motor Composed of Multilayer Piezoelectric Devices and Strain Wave Gearing.

ISHIDA MUNEAKI (1); SHIRASUKA KEIICHI (1); SHIMIZU TAKUYA (1); HORI TAKAMASA (1)

(1) Mie Univ.

Nippon Kikai Gakkai Robotikusu, Mekatoronikusu Koenkai Koen Ronbunshu, 1992 , VOL.1992-A, PAGE.949-954, FIG.13, TBL.2, REF.5

JOURNAL NUMBER: L0318AAB

UNIVERSAL DECIMAL CLASSIFICATION: 621.313.13

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

...ABSTRACT: much lighter or smaller than the conventional ones. Therefore we proposed a new type of **motor** composed of multi-layer piezoelectric **devices** and strain wave gearing, which is called synchronous type piezoelectric **motor** (named SPM-1), as a first step to realize a low speed **motor** with a large generated torque, small size and light-weight. The principle of the **motor** is that the mechanically traveling wave is generated by the multilayer piezoelectric **devices** and the generated torque is produced by the mechanism of the strain wave gearing (circular spline and flexspline). The proposed **motor** is operated in variable frequency and its **rotational** position (angle) can be controlled in **open** -loop because it is basically a synchronous **motor** . This **motor** is non-electromagnetic **motor** , without any coils and any iron cores which make the **motor** heavy. We developed experimental **motor** named SPM-2 aiming at improvement of the generated torque. In this paper, we describe...

12/3,K/65 (Item 4 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01460769 JICST ACCESSION NUMBER: 92A0210140 FILE SEGMENT: JICST-E

Design and Development of a Direct Paddy Seeder.

GUPTA C P (1); HERWANTO T (2)

(1) Asian Inst. Technology, Bangkok, THA; (2) Padjadjaran Univ., Bandung, IND

AMA, 1992, VOL.23,NO.1, PAGE.23-27, FIG.8, REF.7

JOURNAL NUMBER: S0084BAR ISSN NO: 0084-5841

UNIVERSAL DECIMAL CLASSIFICATION: 631.31/.34

LANGUAGE: English COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...ABSTRACT: is a seed hopper, a 6 fluted seed metering roller and a double disc furrow- **opener** . Two lugged driving wheels **rotate** the metering

rollers mounted over a common **shaft** . Each flute in a metering roller can pick up 3 to 5 paddy seeds and...

...seeder is provided with a foot-operated clutch to disengage the metering mechanism and a **canopy** to protect the operator from direct sunlight. It has a field capacity of about 0...

12/3,K/66 (Item 5 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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01267671 JICST ACCESSION NUMBER: 91A0213136 FILE SEGMENT: JICST-E

Principle and operation of the new type motor consisted of piezo-electric device and strain wave gearing.

ISHIDA MUNEAKI (1); HORI TAKAMASA (1); HAMAGUCHI JUN'ICHI (2)

(1) Mie Univ., Faculty of Engineering; (2) Miekennikakucho

Denki Gakkai Ronbunshi. D(Transactions of the Institute of Electrical Engineers of Japan. D), 1990, VOL.110,NO.12, PAGE.1247-1256, FIG.14, TBL.3, REF.8

JOURNAL NUMBER: X0451AAJ ISSN NO: 0913-6339

UNIVERSAL DECIMAL CLASSIFICATION: 621.382:537.226.86 621.833 621.313.13

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: Authors have developed a new type of **motor** composed of piezo-electric **device** and strain wave gearing, which is called piezo-electric **motor** , as a first stage to realize a low speed **motor** with small size and light-weight. The principle of the **motor** is that the traveling wave is produced by piezo-electric **devices** and displacement conversion **devices** without mechanical resonance and the torque to rotate the **motor** is generated by a mechanism of strain wave gearing (circular spline and flexspline) without using friction. The **motor** is operated in variable frequency and have its **rotational** position (angle) controlled in **open** -loop because it is basically a synchronous **motor** . In this paper, the structure and principle of the proposed **motor** are explained and the driving method and the mechanical characteristics of an experimental **motor** are also described. The results are as follows; (1) The proposed piezo-electric **motor** is experimentally verified realizable. The experimental **motor** operates in 2,920 step per revolution, and its speed range is 0-960pps (or...

...rpm)). (2) The torque characteristics are clarified qualitatively. (3) The generated torque of the experimental **motor** is small (less than 0.03Nm) and therefore the improvement of the torque is an important subject here after. (4) It is possible to construct the **motor** with nonmetallic material. This fact is considered to make a way to lighten the **motor** in weight in the future. (author abst.)

12/3,K/67 (Item 1 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

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01251857 T98106126124

Tajima adds new line-up to TMFX series

(Tajima bringt eine neue Maschine zur TMFX-Reihe)

anonym

JTN Monthly - Asia's Foremost Textile Journal, v117, n527 (Beilage), pp65, 1998

Document type: Short journal article Language: English

Record type: Abstract

ISSN: 0021-4752

ABSTRACT:

...lever guard, patented individual tension base, built-in floppy disk drive, scale up/down and **rotate** functions, satin stitch **expansion**, design editing, automatic repeat, standard 128000 stitch memory capacity, main **shaft** drive mechanism, automatic offset/manual offset, origin return, frame back and an automatic thread trimming and holding **device**.

12/3,K/68 (Item 2 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

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00617156 M92098082679

A rotary powder compression molding machine

(Drehtischvorrichtung zum Formpressen von pulverfoermigem Material)

Tanino, T; Furuya, Y; Takeda, T; Endo, Y; Inoue, H

Shionogi Seiyaku K.K., Osaka, J

1992

Document type: European patent application Language: English

Record type: Abstract

ABSTRACT:

...compression molding machine body, and means for dropping powder on an upstream side of the **open** feed shoe in the **rotation** direction of the turntable; and a detecting **device** having an ultrasonic sensor which is disposed so that an ultrasonic wave is reflected from...

12/3,K/69 (Item 3 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management

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00617137 M92098101679

One-main-pipe type centralized lubrication apparatus

(Zentralschmieranlage)

Hirose, Y; Kuruma, A; Tada, H

Daikin Industries, Osaka-fu, J

1992

Document type: European patent application Language: English

Record type: Abstract

ABSTRACT:

A one-main-pipe type centralized lubrication apparatus comprising: a) a pump **device** having a **motor**, a pump element operable in association with said **motor**, a tank communicating with the suction side of said pump element, and a discharge passage...

...element, b) one main oil feed pipe connected to said discharge passage of said pump **device**, and c) a plurality of distributors connected to said main oil feed pipe, said lubrication apparatus further having the following construction: said pump **device** being provided with a depressurization passage for opening said discharge passage in said tank and...

...depressurization valve for opening or closing said depressurization

passage with respect to said tank, said **motor** being normally and reversely rotatable, and an interlocking mechanism which, during the normal rotation of said **motor**, controls said depressurization valve to be closed and during the reverse **rotation** of said **motor** controls said depressurization valve to be **open** and which is provided between said **motor** and said depressurization valve. (No obligations as to scope of patent protection and application.)

12/3,K/70 (Item 4 from file: 95)

DIALOG(R)File 95:TEME-Technology & Management
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00572950 M92024673674

Wire supply reel support device

(Vorrichtung zum Halten einer Drahtvorratsrolle)

Rousculp, ER; Seuffer, LE

The Lincoln Electric Co., Cleveland, USA

1991

Document type: European patent application Language: English

Record type: Abstract

ABSTRACT:

...wound thereon, said reel means having a hub with an axial bore opening, said support **device** comprising: a spindle slidably fitted and axially and **rotatively** locked in place within the said bore **opening** of said reel means, said spindle having axially aligned circular bearing surface means at its...

12/3,K/71 (Item 1 from file: 96)

DIALOG(R)File 96:FLUIDEX

(c) 2003 Elsevier Science Ltd. All rts. reserv.

00215115 FLUIDEX NO: 0223084 SUBFILE: FM

Liquid flow measurement in open channels - rotating element current-meters.

Geneva, Switzerland, Int. Organization Standardization, 1988, 8p. (ISO 2537:1988(E)), 1988

REPORT NUMBER: ISO 2537:1988(E)

DOCUMENT AVAILABLE: YES

PUBLISHER: Int. Organization Standardization

RECORD TYPE: ABSTRACT

LANGUAGES: English

This international standard specifies the operational requirements, construction, calibration, and maintenance of **rotating element devices** for the measurement of flow velocities in **open** channels. This international standard does not define the form of the signal produced by the...

12/3,K/72 (Item 2 from file: 96)

DIALOG(R)File 96:FLUIDEX

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00149810 FLUIDEX NO: 0156520 SUBFILE: FP

Device for open circuit hydraulic motor rotation control.

Oleodin. Pneum., vol.25, no.6, Jun. 1984, p.52-53., 1984

DOCUMENT AVAILABLE: YES

ISSN: 0391-8645

RECORD TYPE: ABSTRACT
LANGUAGES: Italian

Device for open circuit hydraulic motor rotation control.

12/3,K/73 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2003 The HW Wilson Co. All rts. reserv.

2206228 H.W. WILSON RECORD NUMBER: BAST97005046

Analysis and design of an air-cycle microclimate cooling device

Rahman, M. M;

Journal of Energy Resources Technology v. 118 (Dec. 1996) p. 293-9

DOCUMENT TYPE: Feature Article ISSN: 0195-0738

...ABSTRACT: lightweight, open-cycle reverse-Brayton heat pump for personal cooling in a backpack format. The **device** consists of a **centrifugal** compressor, 2 turbines or **expanders**, a combustion chamber, 3 heat exchangers, a water separator, and an electric generator. It is...

12/3,K/74 (Item 2 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs
(c) 2003 The HW Wilson Co. All rts. reserv.

2157154 H.W. WILSON RECORD NUMBER: BAST00046601

Gradient formation in membrane unit for differential precipitation of proteins

Sookkumnerd, Terasut; Hsu, James T; Ito, Yoichiro

AIChE Journal v. 46 no6 (June 2000) p. 1191-200

DOCUMENT TYPE: Feature Article ISSN: 0001-1541

...ABSTRACT: of proteins. A mathematical model that explains the ammonium sulfate gradient formation inside the stationary **membrane** unit was studied. The model was **expanded** using an empirical correlation to the **centrifugal membrane** unit and was found to be in good agreement with test findings for both stationary...

18/3,K/1 (Item 1 from file: 6)

DIALOG(R)File 6:NTIS

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2228731 NTIS Accession Number: ADA398248/XAB

NATO's Expansion Decision

(Thesis)

Bick, R. A.

Air War Coll., Maxwell AFB, AL.

Corp. Source Codes: 001030000; 014550

Report No.: AU/AWC/RWP/014/97-04

1 Apr 1997 54p

Languages: English

Journal Announcement: USGRDR0212

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NTIS Prices: PC A05/MF A01

... Russian democracy, the assets that newcomers will bring to the Alliance, the security risks of **expanding** the NATO nuclear **umbrella**, the investment of member countries in a downsizing environment, the effect on Russian ratification of...

18/3,K/2 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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2053906 NTIS Accession Number: AD-A335 509/6/XAB

HAWKS (HITRAN Atmospheric Work Station)

(Final rept. Aug 91-Jun 95)

Ontar Corp., North Andover, Ma.

Corp. Source Codes: 114587000; 430275

Report No.: PL-TR-96-2033

Nov 95 338p

Languages: English

Journal Announcement: GRAI9810

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NTIS Prices: PC A16/MF A03

... gases. The next HITRAN release will be made under the HAWKS (HITRAN Atmospheric Work Station) **umbrella**. This new approach comes about because of the **expanded** nature of the current database. It includes an updated version of the traditional HITRAN compilation...

18/3,K/3 (Item 3 from file: 6)

DIALOG(R)File 6:NTIS

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1871500 NTIS Accession Number: DE95004695

Budget projections 1989, 1990, and 1991 for research in high energy

nuclear physics

Harvard Univ., Cambridge, MA. Dept. of Physics.
Corp. Source Codes: 004185037; 2935000
Sponsor: Department of Energy, Washington, DC.
Report No.: DOE/ER/03064-T3
May 89 58p
Languages: English
Journal Announcement: GRAI9513; ERA9525
Sponsored by Department of Energy, Washington, DC.
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NTIS Prices: PC A04/MF A01

... These budget projections cover all of the Harvard based high energy physics experimental activities. The (**open** quotes) **umbrella** (close quotes) nature of this contract greatly simplifies support of essential central technical and computer...

18/3,K/4 (Item 4 from file: 6)

DIALOG(R)File 6:NTIS
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1869685 NTIS Accession Number: DE95004697

Budget projections - 1991 through 1996 for research in high energy physics

Harvard Univ., Cambridge, MA. Dept. of Physics.
Corp. Source Codes: 004185037; 2935000
Sponsor: Department of Energy, Washington, DC.
Report No.: DOE/ER/03064-T5
May 91 72p
Languages: English
Journal Announcement: GRAI9512; ERA9524
Sponsored by Department of Energy, Washington, DC.
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A04/MF A01

... These budget projections cover all of the Harvard based high energy physics experimental activities. The (**open** quotes) **umbrella** (close quotes) nature of this contract greatly simplifies support of essential central technical and computer...

18/3,K/5 (Item 5 from file: 6)

DIALOG(R)File 6:NTIS
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1869684 NTIS Accession Number: DE95004696

Budget projections 1990, 1991, and 1992 for research in high energy nuclear physics

Harvard Univ., Cambridge, MA. Dept. of Physics.
Corp. Source Codes: 004185037; 2935000
Sponsor: Department of Energy, Washington, DC.
Report No.: DOE/ER/03064-T4
May 90 67p

Languages: English
Journal Announcement: GRAI9512; ERA9524
Sponsored by Department of Energy, Washington, DC.
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A04/MF A01

... These budget projections cover all of the Harvard based high energy physics experimental activities. The (**open** quotes) **umbrella** (close quotes) nature of this contract greatly simplifies support of essential central technical and computer...

18/3,K/6 (Item 6 from file: 6)
DIALOG(R)File 6:NTIS
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1824689 NTIS Accession Number: N94-33319/2
Galileo High Gain Antenna Deployment Anomaly
Johnson, M. R.
Jet Propulsion Lab., Pasadena, CA.
Corp. Source Codes: 014828000; JJ574450
Sponsor: National Aeronautics and Space Administration, Washington, DC.
May 94 19p
Languages: English
Journal Announcement: GRAI9421; STAR3209
In NASA. Lewis Research Center, the 28TH Aerospace Mechanisms Symposium p 359-377.
NTIS Prices: (Order as N94-33291/3, PC A19/MF A04)

...The Antenna's launch restraint had been released just after deployment sequence, the antenna, which **opens** like an **umbrella**, never reached the fully deployed position. The analyses and tests that followed allowed a conclusive...

18/3,K/7 (Item 7 from file: 6)
DIALOG(R)File 6:NTIS
(c) 2003 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

1690316 NTIS Accession Number: N92-34203/9
Human Factors Issues in the Use of Artificial Intelligence in Air Traffic Control. October 1990 Workshop
(Final Report, Jun. 1990 - Dec. 1991)
Hockaday, S. ; Kuhlenschmidt, S.
California Polytechnic State Univ., San Luis Obispo.
Corp. Source Codes: 045497000; CB609194
Sponsor: National Aeronautics and Space Administration, Washington, DC.
Report No.: NAS 1.26:190925; TR-91-7; NASA-CR-190925
Dec 91 12p
Languages: English Document Type: Conference proceeding
Journal Announcement: GRAI9303; STAR3024
Workshop Held 3-5 Oct. 1990.
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A03/MF A01

... of artificial intelligence (AI) to advanced air traffic control (ATC) automation concepts. AI is an **umbrella** term which is continually **expanding** to cover a variety of techniques where machines are performing actions taken based upon dynamic...

18/3,K/8 (Item 8 from file: 6)

DIALOG(R)File 6:NTIS

(c) 2003 NTIS, Intl Cpyrght All Rights Res. All rts. reserv.

1515112 NTIS Accession Number: DE90008700

COMEDIE program review and fission product transport in MHTGR reactor.

Foreign trip report, February 23, 1990-March 1, 1990

Stansfield, O. M.

Oak Ridge National Lab., TN.

Corp. Source Codes: 021310000; 4832000

Sponsor: Department of Energy, Washington, DC.

Report No.: ORNL/FTR-3545

15 Mar 90 23p

Languages: English Document Type: Conference proceeding

Journal Announcement: GRAI9018; ERA9032

Sponsored by Department of Energy, Washington, DC.

Portions of this document are illegible in microfiche products. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

... and preparation for the DCAA and Quality Assurance audits were discussed. Long-range interest in **expanded** participation in the gas-cooled reactor technology **Umbrella** Agreement was also expressed by the CEA. At the CENG, in Grenoble, technical details on...

18/3,K/9 (Item 9 from file: 6)

DIALOG(R)File 6:NTIS

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1303131 NTIS Accession Number: PB87-179404

Torsional-Wagging Tunneling Problem and the Torsional-Wagging-Rotational Problem in Methylamine

(Final rept)

Ohashi, N. ; Hougen, J. T.

National Bureau of Standards (NML), Gaithersburg, MD. Molecular Spectroscopy Div.

Corp. Source Codes: 082042016

1987 28p

Languages: English Document Type: Journal article

Journal Announcement: GRAI8715

Pub. in Jnl. of Molecular Spectroscopy 121, p474-501 1987. See also report dated 1985, PB86-124112.

NTIS Prices: Not available NTIS

...help analyze the methylamine microwave spectrum. The present formalism is applicable when both the NH2 **umbrella** (wagging) motion and the CH3 internal **rotation** (torsion) motion take place near the high-barrier limit and leads to the usual Fourier...

18/3,K/10 (Item 10 from file: 6)

DIALOG(R)File 6:NTIS

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1251318 NTIS Accession Number: AD-357 955/4

Shipboard Contaminant Ingress from Underwater Bursts

(Final rept)

Bigger, M. M. ; Gong, J. K. ; Kawahara, F. K. ; Fuller, R. K. ; Milne, W.

L.

Naval Radiological Defense Lab., San Francisco, CA.

Corp. Source Codes: 014603000; 251650

Report No.: AEC-WT1620

15 Dec 61 130p

Languages: English

Journal Announcement: GRAI8619

Report on Operation Hardtack, Proj. 2.2 (U).

Distribution limitation now removed. Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A07/MF A01

... in the downwind sector of the base surge, fallout, or cloud after Shots Wahoo and **Umbrella**, with ventilation systems **open** (but fans secured) and boilers operating, it was concluded that: (1) the doses due to ...

18/3,K/11 (Item 11 from file: 6)

DIALOG(R)File 6:NTIS

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1122501 NTIS Accession Number: DE84011076

Barrier Breaching Device

(Patent Application)

Honodel, C. A.

Department of Energy, Washington, DC.

Corp. Source Codes: 052661000

Report No.: PAT-APPL-6-500 112

Filed 1 Jun 83 9p

Languages: English Document Type: Patent

Journal Announcement: GRAI8420; NSA0900

This Government-owned invention available for U.S. licensing and, possibly, for foreign licensing. Copy of application available NTIS. Portions are illegible in microfiche products.

NTIS Prices: PC A02/MF A01

... detonating fuse for explosive force. The fuse acts as the ribs or spokes of an **umbrella** -like device that may be **opened** up to form a cone. The cone is placed against the wall so that detonating...

18/3,K/12 (Item 12 from file: 6)

DIALOG(R)File 6:NTIS

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1057170 NTIS Accession Number: AD-A131 292/5

Unit Replacement System Analysis I (URSA I)

(Final study rept)

Holdsworth, D. R. ; Rinehart, S. C.

Army Concepts Analysis Agency, Bethesda, MD.

Corp. Source Codes: 054837000; 390996

Report No.: CAA-SR-82-1

Jan 82 215p

Languages: English

Journal Announcement: GRAI8324

See also AD-A131 293.

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A10/MF A01

... analysis of the steady state conditions, the feasibility and the sustainability of a peacetime unit **rotation** system (URS) within the framework of a regimental **umbrella**. Using a combination of manual techniques and an automatic data processing (ADP) simulation, the study...

18/3,K/13 (Item 13 from file: 6)

DIALOG(R)File 6:NTIS

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0721510 NTIS Accession Number: PB-284 899/2/XAB

Health Manpower Licensing: California's Demonstration Projects

Howard, D. ; Roederer, R. D.

Council of State Governments, Lexington, Ky.

Sponsor: National Science Foundation, Washington, D.C. Applied Science and Research Applications.

Report No.: RM-631; NSF/RA-780193

Apr 78 50p

Journal Announcement: GRAI7823

Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.

NTIS Prices: PC A03/MF A01

... demonstration. By authorizing numerous nurse training programs, the state was able to place a legal **umbrella** over nurses' **expanded** duties until a law could be passed and new licensure regulations promulgated. The program applies...

18/3,K/14 (Item 1 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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05803490 E.I. No: EIP00025064705

Title: Positioning control of a rolling ball on a rotating umbrella by a kasamawashi robot

Author: Watanabe, Shingo; Kouda, Michitomo; Kiyohiro, Noriaki

Corporate Source: Yamanashi Univ, Jpn

Source: Advanced Robotics v 13 n 3 1999. p 339-341

Publication Year: 1999

CODEN: ADROEI ISSN: 0169-1864

Language: English

Title: Positioning control of a rolling ball on a rotating umbrella by a kasamawashi robot

...Abstract: Japanese performance arts. A kasamawashi performer keeps the

position of a rolling object on a **rotating** Japanese **umbrella** . A robot performing 'mari no mawashiwake', which is the most basic performance in kasamawashi, has...

18/3,K/15 (Item 2 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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05259773 E.I. No: EIP99034624264

Title: Appraisal of deployable dome structures under wind loading

Author: Parke, G.A.R.; Toy, N.; Savory, E.; Abedi, K.; Chenaghlou, R.

Corporate Source: Univ of Surrey, Surrey, UK

Source: Wind & Structures, An International Journal v 1 n 4 Dec 1998. p 317-336

Publication Year: 1998

CODEN: WISTFA ISSN: 1226-6116

Language: English

...Abstract: flexible membrane, all of which are initially stored in a compact form and on deployment **expand** , like an **umbrella** , into a dome structure. Loading on the dome was obtained from a wind tunnel analysis...

18/3,K/16 (Item 3 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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05058120 E.I. No: EIP98074271756

Title: Characteristic research into the air conditioning umbrella with an air curtain

Author: Shen, Y.N.; Wang, Z.; Zhang, F.C.; Wang, H.M.

Corporate Source: Zhejiang Univ, Hangzhou, China

Conference Title: Proceedings of the 1998 Conference on Cryogenics and Refrigeration, ICCR

Conference Location: Hangzhou, China Conference Date: 19980421-19980424

E.I. Conference No.: 48628

Source: Proceedings of the Conference on Cryogenics and Refrigeration 1998. Soc des Ingenieurs de l'Automobile, Paris, France. p 286-289

Publication Year: 1998

CODEN: 003058

Language: English

Abstract: In this paper, a prototype **umbrella** for spot comfortization in **open** air is the project to be measured and analyzed. The distribution regularities of flow and...

18/3,K/17 (Item 4 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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03965158 E.I. No: EIP94101432950

Title: Binary solvent effects on the absorption and emission of 7-aminocoumarins

Author: Lopez Arbeloa, T.; Lopez Arbeloa, F.; Tapia Estevez, M.J.; Lopez Arbeloa, I.

Corporate Source: Universidad del Pais Vasco UPV-EHU, Bilbao, Spain

Source: Journal of Luminescence v 59 n 6 Jul 1994. p 369-375

Publication Year: 1994

CODEN: JLUMA8 ISSN: 0022-2313
Language: English

...Abstract: twisted intramolecular charge transfer (TICT) state, and by an hybridational change of the amino group (**open** -close **umbrella** -like motion, ULM model). Both models can explain the experimental results if solute-solvent hydrogen...

...Identifiers: Spectral shifts; Hydrogen bondings; Internal conversion mechanism; Twisted intramolecular charge transfer; Amino group hybridational modification; **Open** close **umbrella** like motion model

18/3,K/18 (Item 5 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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03770196 E.I. No: EIP93121161642

Title: Geometry of expandable space structures

Author: Escrig, F.; Valcarcel, J.P.

Corporate Source: Sch of Architecture of Sevilla, Sevilla, Spain

Source: International Journal of Space Structures v 8 n 1-2 1993. p 71-84

Publication Year: 1993

CODEN: 001245 ISSN: 0266-3511

Language: English

Identifiers: **Expandable** space structures; **Umbrella** mechanisms; Hinged collapsible strut mechanisms; X structures

18/3,K/19 (Item 6 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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03094432 E.I. Monthly No: EIM9107-033971

Title: SOLIC.

Author: Henkel, Paul A.

Corporate Source: General Dynamics

Conference Title: Airborne Reconnaissance XIV

Conference Location: San Diego, CA, USA Conference Date: 19900710

E.I. Conference No.: 14603

Source: Proceedings of SPIE - The International Society for Optical Engineering v 1342. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 211

Publication Year: 1990

CODEN: PSISDG ISSN: 0277-786X

Language: English

...Abstract: programs, according to a congressional staffer, can be considerably enhanced if they fall under the **umbrella** of verification/**open** skies, drug war, or special operations/low intensity conflict (SOLIC) areas of support. An application...

18/3,K/20 (Item 7 from file: 8)
DIALOG(R)File 8: Ei Compendex(R)
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03022698 E.I. Monthly No: EIM9102-005355

Title: Fluorescence of variant-3 scorpion neurotoxin: multiple decay components and multiple decay tryptophan conformers.

Author: Haydock, Christopher; Sedarous, Salah S.; Bajzer, Zeljko; Prendergast, Franklyn G.

Corporate Source: Dept of Biochemistry and Molecular Biology, Rochester, MI, USA

Conference Title: Time-Resolved Laser Spectroscopy in Biochemistry II

Conference Location: Los Angeles, CA, USA Conference Date: 19900115

E.I. Conference No.: 13824

Source: Proceedings of SPIE - The International Society for Optical Engineering v 1204 pt 1. Publ by Int Soc for Optical Engineering, Bellingham, WA, USA. p 92-99

Publication Year: 1990

CODEN: PSISDG ISSN: 0277-786X ISBN: 0-8194-0245-1

Language: English

...Abstract: an average lifetime of about 2 nanoseconds. Both adiabatic mapping and combined thermodynamic perturbation and **umbrella** sampling simulations reveal the presence of two tryptophan-47 **rotational** isomers. One of the isomers corresponds closely to the crystallographic structure and the second is...

18/3,K/21 (Item 8 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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02648164 E.I. Monthly No: EI8810101984

Title: EUROPEAN UNDERGROUND.

Author: Anon

Source: Civil Engineering (New York) v 58 n 1 Jan 1988 p 40-42

Publication Year: 1988

CODEN: CIEGAG ISSN: 0009-7853

Language: English

...Abstract: Lyon, France and Vienna, Austria. Machines that drill, support and line in one swoop, grout **umbrellas** that **open** in support of tunneling operations and underground refrigerator systems that freeze soil are taking subsurface...

18/3,K/22 (Item 9 from file: 8)

DIALOG(R) File 8: Ei Compendex(R)

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02596750 E.I. Monthly No: EIM8806-035302

Title: GREAT SIZE UMBRELLAS SOLVED WITH EXPANDABLE BAR STRUCTURES.

Author: Escrig, Felix; Valcarcel, Juan

Corporate Source: Sch of Architecture, Seville, Spain

Conference Title: LSA 86: Lightweight Structures in Architecture, Proceedings of the First International Conference.

Conference Location: Sydney, Aust Conference Date: 19860824

E.I. Conference No.: 11255

Source: v 1. Publ by Unisearch Ltd, Kensington, Aust p 676-681

Publication Year: 1986

ISBN: 0-85823-558-7

Language: English

Title: GREAT SIZE UMBRELLAS SOLVED WITH EXPANDABLE BAR STRUCTURES.

...Abstract: can be used, a survey of their applications as roofing is carried out. We propose **expandable umbrellas** which should be able to be used for architectural purposes and discuss their constructional problems...

Identifiers: **EXPANDABLE** BAR STRUCTURES; GREAT SIZE **UMBRELLAS** ; MOVABLE CONFIGURATIONS; SEVERAL REGULAR PRISMS

18/3,K/23 (Item 10 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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02229956 E.I. Monthly No: EIM8702-011259

Title: COMPUTER AIDED ENGINEERING FOR DESIGNERS AND USERS OF MOTOR SYSTEMS.

Author: Freeman, E. M.

Corporate Source: ICST

Conference Title: Proceedings of the Conference on Drives/Motors/Controls
85.

Conference Location: London, Engl Conference Date: 19850715

E.I. Conference No.: 08755

Source: Publ by Peter Peregrinus Ltd, London, Engl p 23-27

Publication Year: 1985

ISBN: 0-86341-044-8

Language: English

...Abstract: and robot assembly. All these and more can be now be found under the fast **expanding umbrella** of CAE. CAE provides the means for us to create, test, demonstrate and modify models...

18/3,K/24 (Item 11 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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02223083 E.I. Monthly No: EIM8701-003733

Title: TRAFFIC CONTROL IN THE 80's.

Author: Bennett, J. D.

Corporate Source: Northamptonshire County Council, Highway & Transportation Dep, Engl

Conference Title: UK Developments in Road Traffic Signalling.

Conference Location: London, Engl Conference Date: 19840517

E.I. Conference No.: 05949

Source: IEE Colloquium (Digest) n 1984/58. Publ by IEE, London, Engl p 1.
1-1. 3

Publication Year: 1984

CODEN: DCILDN

Language: English

...Abstract: discuss, disseminate and promote traffic control techniques. From this idea the Traffic Control User Group, **open** to membership from any highway authority, was formed, under the **umbrella** of the County Surveyor's Society. Over recent years members of the User Group have...

18/3,K/25 (Item 12 from file: 8)

DIALOG(R)File 8: Ei Compendex(R)

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01885245 E.I. Monthly No: EIM8508-046139

Title: 'UMBRELLA' FLUOROACRYLIC POLYMERS.

Author: Griffith, James R.

Corporate Source: US Naval Research Lab, Chemistry Div, Washington, DC, USA

Conference Title: Polymeric Materials Science and Engineering, Proceedings of the ACS Division of Polymeric Materials: Science and Engineering, Volume 50. (Papers presented at the American Chemical Society 187th National Meeting.)

Conference Location: St. Louis, MO, USA Conference Date: 19840408

E.I. Conference No.: 05045

Source: Polymeric Materials Science and Engineering, Proceedings of the ACS Division of Polymeric Materials Science and Engineering v 50. Publ by ACS, Washington, DC, USA p 422-424

Publication Year: 1984

CODEN: PMSEDG ISBN: 0-8412-0837-9

Language: English

...Abstract: structural plastics should result. In one conformation the canopy of trifluoromethyl groups literally resembles an **open umbrella**. The present paper uses the precursor iodide 1,3-bis-(methoxyhexafluoro-2-propyl)-5-iodobenzene...

18/3,K/26 (Item 13 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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01846224 E.I. Monthly No: EIM8501-000259

Title: CONVERGENCE OF LAN AND DIGITAL TELEPHONE EXCHANGE SYSTEMS.

Author: Houldsworth, Jack

Corporate Source: Int Computers Ltd, Network Development Cent, Letchworth, Engl

Conference Title: Information Technology and the Computer Network (Proceedings of the NATO Advanced Study Institute).

Conference Location: Bonas, Fr Conference Date: 19830821

E.I. Conference No.: 05044

Source: NATO ASI Series, Series F: Computer and Systems Sciences v 6. Publ by Springer-Verlag, Berlin, West Ger and New York, NY, USA p 137-152

Publication Year: 1984

CODEN: NASFEG ISBN: 3-540-12883-2

Language: English

Abstract: This paper explains the value of integrating all voice and data services under the **umbrella** of the **open** systems interconnect (OSI) architecture which is being developed by the International Standards Organisation.

18/3,K/27 (Item 14 from file: 8)

DIALOG(R)File 8:Ei Compendex(R)

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01384254 E.I. Monthly No: EI8308060643 E.I. Yearly No: EI83005243

Title: ON THE DIRECTIONAL PROPERTIES OF UNFURLING DISH ANTENNAS.

Author: Azyukin, A. V.; Klassen, V. I.

Source: Radio Engineering and Electronic Physics (English translation of Radiotekhnika i Elektronika) v 27 n 8 Aug 1983 p 59-66

Publication Year: 1983

CODEN: RENPAL ISSN: 0033-7889

Language: ENGLISH

Abstract: Results of a numerical analysis of radiation patterns and of directive gain are given for **opening** parabolic antennas of **umbrella** type. The antenna geometry is varied and the analysis is performed for an antenna model...

18/3,K/28 (Item 15 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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01373862 E.I. Monthly No: EI8307055621 E.I. Yearly No: EI83059940

Title: SOLVATION AND CONFORMATION OF METHANOL IN WATER.

Author: Jorgensen, William L.; Madura, Jeffry D.

Corporate Source: Purdue Univ, Dep of Chemistry, West Lafayette, Indiana, USA

Source: Journal of the American Chemical Society v 105 n 6 Mar 23 1983 p 1407-1413

Publication Year: 1983

CODEN: JACSAT ISSN: 0002-7863

Language: ENGLISH

...Abstract: group to be included in the simulation. Statistics for the conformational process were enhanced by **umbrella** sampling over chopped **rotational** barriers. The computed heat of solution (MINUS 17 PLUS OR MINUS 5 kcal/mol) is...

18/3,K/29 (Item 16 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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00750743 E.I. Monthly No: EI7810071745 E.I. Yearly No: EI78008478

Title: UMBRELLA CATHETER FOR NONOPERATIVE CLOSURE OF ATRIAL SEPTAL DEFECTS.

Author: Mills, Noel L.; King, Terry D.; Thompson, Sandra L.

Corporate Source: Ochsner Med Inst, Dep of Surg, New Orleans, La

Source: Medical Instrumentation v 12 n 1 Jan-Feb 1978 Purdue Card Defibrillation Conf, 2nd, Proc, Purdue Univ, West Lafayette, Indiana, Sep 19-21 1977 p 65-69

Publication Year: 1978

CODEN: MLISBY ISSN: 0090-6689

Language: ENGLISH

...Abstract: using a pair of interlocking umbrella-like components made of stainless steel and Dacron. The **umbrellas** are smaller, lighter, and have automatic **opening** ring. They are loaded simultaneously into a single capsule on the distal end of the...

18/3,K/30 (Item 17 from file: 8)

DIALOG(R)File 8:EI Compendex(R)

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00460114 E.I. Monthly No: EI7506038494 E.I. Yearly No: EI75036503

Title: Special Features of the Design and Assembly of the Djerdap -- Iron Gates Hydroelectric Power Plant Turbines.

Title: OSOBNOSTI KONSTRUKTSII I MONTAZHA TURBIN GES DZHERDAP -- ZHELEZNYE VOROTA.

Author: Gal'perin, M. I.; Iovanovich, M.; Iovanovich, L.; Solov'ev, Yu. M.

Source: Energomashinostroenie n 2 Feb 1975 p 27-30

Publication Year: 1975

CODEN: EGMSAW ISSN: 0013-7456

Language: RUSSIAN

Abstract: Twelve hydraulic turbine sets, each consisting of a 178,000 kw **rotating** blade turbine and an **umbrella** -type generator rigidly connected with it are installed at the Djerdap -- Iron Gates hydroelectric power...

18/3,K/31 (Item 18 from file: 8)
DIALOG(R)File 8:EI Compendex(R)
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00216642 E.I. Monthly No: EI72X023989
Title: Internal scaffold opens like umbrella .
Author: ANON
Source: Construction Methods and Equipment v 53 n 8 Aug 1971 p 43
Publication Year: 1971
CODEN: CMEQA
Language: ENGLISH

Title: Internal scaffold opens like umbrella .

18/3,K/32 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

09292365 Genuine Article#: 389JY No. References: 26
Title: Quantum dynamics of the reaction of hydrogen atom with methane
Author(s): Yu HG (REPRINT)
Corporate Source: Brookhaven Natl Lab, Dept Chem, Bldg 555/Upton//NY/11973
(REPRINT); Gothenburg Univ, Dept Chem, S-41296 Gothenburg//Sweden/
Journal: CHEMICAL PHYSICS LETTERS, 2000, V332, N5-6 (DEC 29), P538-544
ISSN: 0009-2614 Publication date: 20001229
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: the $H + CH_4 \rightarrow H_2 + CH_3$ reaction have been performed by using a four-dimensional **rotating** bond **umbrella** (RBU) model, based on a modified potential energy surface of Espinosa-Garcia and Corchado. The...

18/3,K/33 (Item 2 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

08725935 Genuine Article#: 322BY No. References: 20
Title: Phase transition in the randomly diluted triangular-lattice antiferromagnet with single-ion anisotropy in an external field
Author(s): Dong ZH (REPRINT) ; Gu SW; Peng JP
Corporate Source: SHANGHAI JIAO TONG UNIV, DEPT APPL PHYS/SHANGHAI 200240//PEOPLES R CHINA/ (REPRINT); YANBEI TEACHERS COLL, DEPT PHYS/DATONG 037000//PEOPLES R CHINA/
Journal: PHYSICS LETTERS A, 2000, V270, N3-4 (MAY 29), P214-219
ISSN: 0375-9601 Publication date: 20000529
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: heat demonstrate that there exist two phase transitions. The spin order is proposed to be **open - umbrella** -like, Ising-like or paramagnetic structure in the different phases. (C) 2000 Published by

Elsevier...

18/3,K/34 (Item 3 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

08310050 Genuine Article#: 269ZA No. References: 74

Title: Quantum dynamics of the O(P-3)+CH4->OH+CH3 reaction: An application of the rotating bond umbrella model and spectral transform subspace iteration

Author(s): Yu HG (REPRINT) ; Nyman G

Corporate Source: GOTHENBURG UNIV,DEPT CHEM/S-41296 GOTHENBURG//SWEDEN/
(REPRINT)

Journal: JOURNAL OF CHEMICAL PHYSICS, 2000, V112, N1 (JAN 1), P238-247

ISSN: 0021-9606 Publication date: 20000101

Publisher: AMER INST PHYSICS, CIRCULATION FULFILLMENT DIV, 500 SUNNYSIDE
BLVD, WOODBURY, NY 11797-2999

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: Quantum dynamics of the O(P-3)+CH4->OH+CH3 reaction: An application of the rotating bond umbrella model and spectral transform subspace iteration

Abstract: We have applied the **rotating bond umbrella** (RBU) model to perform time-independent quantum scattering calculations of the O(P-3)+CH4...

18/3,K/35 (Item 4 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

08231856 Genuine Article#: 260MV No. References: 17

Title: An application of the rotating line umbrella model to quantum dynamics of S(N)2 reactions

Author(s): Yu HG; Nyman G (REPRINT)

Corporate Source: GOTHENBURG UNIV,DEPT CHEM PHYS CHEM/S-41296
GOTHENBURG//SWEDEN/ (REPRINT); GOTHENBURG UNIV,DEPT CHEM PHYS
CHEM/S-41296 GOTHENBURG//SWEDEN/

Journal: CHEMICAL PHYSICS LETTERS, 1999, V312, N5-6 (OCT 29), P585-590

ISSN: 0009-2614 Publication date: 19991029

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: An application of the rotating line umbrella model to quantum dynamics of S(N)2 reactions

Abstract: The **rotating line umbrella** (RLU) model has been modified to study quantum scattering of the S(N)2 reaction...

18/3,K/36 (Item 5 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

08082710 Genuine Article#: 244LB No. References: 43

Title: Reaction dynamics of chlorine atom with methane: Dual-level ab initio analytic potential energy surface and isotope effects

Author(s): Yu HG (REPRINT) ; Nyman G

Corporate Source: UNIV GOTHENBURG,DEPT CHEM/S-41296 GOTHENBURG//SWEDEN/
(REPRINT)

Journal: JOURNAL OF CHEMICAL PHYSICS, 1999, V111, N15 (OCT 15), P6693-6704
ISSN: 0021-9606 Publication date: 19991015
Publisher: AMER INST PHYSICS, CIRCULATION FULFILLMENT DIV, 500 SUNNYSIDE
BLVD, WOODBURY, NY 11797-2999
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: made to account for all modes not explicitly treated with the time-independent quantum scattering **rotating** line **umbrella** (RLU) model, which is used for the dynamics calculations. The effective potential gives a vibrationally...

18/3,K/37 (Item 6 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

07973252 Genuine Article#: 224ZF No. References: 48
Title: Four-dimensional quantum scattering calculations on the H+CH4->H-2+CH3 reaction
Author(s): Yu HG (REPRINT) ; Nyman G
Corporate Source: GOTHENBURG UNIV,DEPT CHEM/S-41296 GOTHENBURG//SWEDEN/ (REPRINT)
Journal: JOURNAL OF CHEMICAL PHYSICS, 1999, V111, N8 (AUG 22), P3508-3516
ISSN: 0021-9606 Publication date: 19990822
Publisher: AMER INST PHYSICS, CIRCULATION FULFILLMENT DIV, 500 SUNNYSIDE
BLVD, WOODBURY, NY 11797-2999
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: 2+CH3 reaction, using the analytic potential-energy surface developed by Jordan and Gilbert. A **rotating** bond **umbrella** (RBU) approximation with the implementation of a guided spectral transform subspace iteration technique has been...

18/3,K/38 (Item 7 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

07582679 Genuine Article#: 184QZ No. References: 77
Title: A four dimensional quantum scattering study of the Cl+CH4 reversible arrow HCl+CH3 reaction via spectral transform iteration
Author(s): Yu HG (REPRINT) ; Nyman G
Corporate Source: UNIV GOTHENBURG,DEPT CHEM PHYS CHEM/S-41296 GOTHENBURG//SWEDEN/ (REPRINT)
Journal: JOURNAL OF CHEMICAL PHYSICS, 1999, V110, N15 (APR 15), P7233-7244
ISSN: 0021-9606 Publication date: 19990415
Publisher: AMER INST PHYSICS, CIRCULATION FULFILLMENT DIV, 500 SUNNYSIDE
BLVD, WOODBURY, NY 11797-2999
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: study of the Cl+CH(4)reversible arrow HCl+CH3 reaction using a four-dimensional **rotating** bond **umbrella** (RBU) model. A semiempirical potential energy surface is employed, where the zero point energy of...

18/3,K/39 (Item 8 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

07569287 Genuine Article#: 182PX No. References: 50

Title: Three-dimensional quantum scattering calculations on the Cl+CH4 reversible arrow HCl+CH3 reaction

Author(s): Yu HG (REPRINT) ; Nyman G

Corporate Source: CHALMERS UNIV TECHNOL, DEPT CHEM/S-41296

GOTHENBURG//SWEDEN/ (REPRINT)

Journal: PCCP PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 1999, V1, N6 (MAR 15), P 1181-1190

ISSN: 1463-9076 Publication date: 19990315

Publisher: ROYAL SOC CHEMISTRY, THOMAS GRAHAM HOUSE, SCIENCE PARK, MILTON ROAD, CAMBRIDGE CB4 0WF, CAMBS, ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: scattering calculations are performed on the Cl + CH4 reversible arrow HCl + CH3 reaction using a **rotating line umbrella** (RLU) model. The breaking and forming bonds are treated explicitly as is the umbrella motion...

18/3,K/40 (Item 9 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

07569286 Genuine Article#: 182PX No. References: 44

Title: Quantum dynamics of the O(P-3)+CH4->CH3+OH reaction

Author(s): Clary DC (REPRINT)

Corporate Source: UNIV LONDON UNIV COLL, DEPT CHEM, 20 GORDON ST/LONDON WC1H 0AJ//ENGLAND/ (REPRINT)

Journal: PCCP PHYSICAL CHEMISTRY CHEMICAL PHYSICS, 1999, V1, N6 (MAR 15), P 1173-1179

ISSN: 1463-9076 Publication date: 19990315

Publisher: ROYAL SOC CHEMISTRY, THOMAS GRAHAM HOUSE, SCIENCE PARK, MILTON ROAD, CAMBRIDGE CB4 0WF, CAMBS, ENGLAND

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: scattering calculations to be performed on the reaction O(P-3) + CH4 --> CH3 + OH. The **umbrella** vibrational modes of CH4 and CH3, and the **rotational j'** states of CH3 are included explicitly in computations on this reaction. A realistic potential...

18/3,K/41 (Item 10 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

07514742 Genuine Article#: 175UA No. References: 28

Title: Behavioral assessment of horses in therapeutic riding programs

Author(s): Anderson MK; Friend TH (REPRINT) ; Evans JW; Bushong DM

Corporate Source: TEXAS A&M UNIV, DEPT ANIM SCI/COLLEGE STN//TX/77843

(REPRINT); TEXAS A&M UNIV, DEPT ANIM SCI/COLLEGE STN//TX/77843

Journal: APPLIED ANIMAL BEHAVIOUR SCIENCE, 1999, V63, N1 (MAR), P11-24

ISSN: 0168-1591 Publication date: 19990300

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: horse for 20 s; popping a balloon near the horse's flank area; and suddenly **opening** an **umbrella** and holding it **open** in front of the horse for 20 s. Reactions (expressions, vocalizations and movement) to each...

18/3,K/42 (Item 11 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

07511681 Genuine Article#: 175AQ No. References: 6
Title: Two new species of the genus Duplacrorthynchus Schockaert & Karling, 1970, with remarks on relationships within the genus and on the Duplacrorthynchinae (Platyhelminthes, Polycystididae)
Author(s): Artois T (REPRINT) ; Schockaert E
Corporate Source: LIMBURGS UNIV CTR,DPT SBG, RES GRP ZOOL, UNIV CAMPUS/B-3590 DIEPENBEEK//BELGIUM/ (REPRINT)
Journal: BELGIAN JOURNAL OF ZOOLOGY, 1999, V129, N1 (JAN), P235-244
ISSN: 0777-6276 Publication date: 19990100
Publisher: SOCIETE ROYALE ZOOLOGIQUE DE BELGIQUE, C/O PROF DR E SCHOCKAERT, DEPT SBG, LIMBURGS UNIVERSITAIR CENTRUM, B-3590 DIEPENBEEK, BELGIUM
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: bulb is divided by a septum, and the cirrus has small spines and a proximal **umbrella** -like **expansion** . In D. heyleni only the cirrus, which has strong teeth, is enclosed in the cirrus...

18/3,K/43 (Item 12 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

07319556 Genuine Article#: 149LX No. References: 35
Title: A spectral transform Krylov subspace iteration approach to quantum scattering
Author(s): Yu HG; Nyman G (REPRINT)
Corporate Source: GOTHENBURG UNIV,DEPT CHEM/S-41296 GOTHENBURG//SWEDEN/ (REPRINT); GOTHENBURG UNIV,DEPT CHEM/S-41296 GOTHENBURG//SWEDEN/
Journal: CHEMICAL PHYSICS LETTERS, 1998, V298, N1-3 (DEC 11), P27-35
ISSN: 0009-2614 Publication date: 19981211
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: exponential filter, and (c) discrete variable representation basis. The method is applied to the 3D **rotating** line **umbrella** calculations of the reaction Cl + CH4 reversible arrow HCl + CH3 which shows that it is...

18/3,K/44 (Item 13 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

07207584 Genuine Article#: 136XX No. References: 23
Title: The ASDOS device: Technique and guidelines for clinical use
Author(s): Babic UU (REPRINT)
Corporate Source: GOTTLIEB DAIMLER 5,/D-79618 RHEINFELDEN HERTE//GERMANY/ (REPRINT); OSYPKA,INTERVENT KARDIOL ABT/RHEINFELDEN//GERMANY/
Journal: JOURNAL OF INTERVENTIONAL CARDIOLOGY, 1998, V11, N5,1 (OCT), P 485-494
ISSN: 0896-4327 Publication date: 19981000
Publisher: FUTURA PUBL CO, 135 BEDFORD RD, PO BOX 418, ARMONK, NY 10504-0418
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: developed systems for nonsurgical closure of interatrial communications. The ASDOS occluder consists of two self- **opening umbrellas** made of nitinol wire frame and polyurethane membrane. The unique ASDOS technique provides: (1) an...

18/3,K/45 (Item 14 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

07111393 Genuine Article#: 125BE No. References: 31
Title: Rotationally resolved IR spectroscopy of ammonia trapped in cold helium clusters
Author(s): Behrens M (REPRINT) ; Buck U; Frochtenicht R; Hartmann M; Huisken F; Rohmund F
Corporate Source: MAX PLANCK INST STROMUNGSFORSCH, BUNSENSTR 10/D-37073 GOTTINGEN//GERMANY/ (REPRINT)
Journal: JOURNAL OF CHEMICAL PHYSICS, 1998, V109, N14 (OCT 8), P5914-5920
ISSN: 0021-9606 Publication date: 19981008
Publisher: AMER INST PHYSICS, CIRCULATION FULFILLMENT DIV, 500 SUNNYSIDE BLVD, WOODBURY, NY 11797-2999
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: the ground state. This implies an unusually large interaction between the host cluster and the **umbrella** motion of the ammonia molecule, an intermediate influence on the **rotation** and also a large perturbation of the inversion by the helium environment. (C) 1998 American...

18/3,K/46 (Item 15 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

06901531 Genuine Article#: 100UB No. References: 39
Title: Behavioural, saliva cortisol and heart rate responses to different types of stimuli in dogs
Author(s): Beerda B; Schilder MBH (REPRINT) ; vanHooff JARAM; deVries HW; Mol JA
Corporate Source: UNIV UTRECHT, DEPT ETHOL & SOCIO ECOL, POB 80-086/NL-3508 TB UTRECHT//NETHERLANDS/ (REPRINT); UNIV UTRECHT, DEPT ETHOL & SOCIO ECOL/NL-3508 TB UTRECHT//NETHERLANDS/; UNIV UTRECHT, DEPT CLIN SCI COMPAN ANIM/UTRECHT//NETHERLANDS/
Journal: APPLIED ANIMAL BEHAVIOUR SCIENCE, 1998, V58, N3-4 (JUL), P365-381
ISSN: 0168-1591 Publication date: 19980700
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: each subjected to six different stimuli: sound blasts, short electric shocks, a falling bag, an **opening umbrella** and two forms of restraint. Each type of stimulus had been selected for its assumed ...

18/3,K/47 (Item 16 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

06655492 Genuine Article#: ZH717 No. References: 0
Title: Carolace corporate umbrella expands

Author(s): ANONYMOUS
Journal: TEXTILE CHEMIST AND COLORIST, 1998, V30, N4 (APR), P3-4
ISSN: 0040-490X Publication date: 19980400
Publisher: AMER ASSN TEXT CHEM COLOR, PO BOX 12215, RES TRIANGLE PK, NC
27709
Language: English Document Type: NEWS ITEM

Title: Carolace corporate umbrella expands

18/3,K/48 (Item 17 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

06366593 Genuine Article#: YM499 No. References: 85
Title: Quantitative comparison and optimization of methods for evaluating the chemical potential by molecular simulation
Author(s): Kofke DA (REPRINT) ; Cummings PT
Corporate Source: SUNY BUFFALO,DEPT CHEM ENGN/BUFFALO//NY/14260 (REPRINT);
UNIV TENNESSEE,DEPT CHEM ENGN/KNOXVILLE//TN/37996; OAK RIDGE NATL
LAB,DIV CHEM TECHNOL/OAK RIDGE//TN/37831
Journal: MOLECULAR PHYSICS, 1997, V92, N6 (DEC 20), P973-996
ISSN: 0026-8976 Publication date: 19971220
Publisher: TAYLOR & FRANCIS LTD, ONE GUNPOWDER SQUARE, LONDON, ENGLAND EC4A
3DE
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: the direction of decreasing entropy. Other findings show that uniform sampling is not optimal for **umbrella** -sampling and **expanded** -ensemble applications, although it remains a good rule of thumb for tuning these approaches. Among...

18/3,K/49 (Item 18 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

06160908 Genuine Article#: XY955 No. References: 56
Title: Molecular dynamics study of free energy profiles for organic cations in gramicidin A channels
Author(s): Hao Y; Pear MR; Busath DD (REPRINT)
Corporate Source: BRIGHAM YOUNG UNIV,DEPT ZOOL/PROVO//UT/84602 (REPRINT);
BROWN UNIV,DEPT PHYSIOL/PROVIDENCE//RI/02912
Journal: BIOPHYSICAL JOURNAL, 1997, V73, N4 (OCT), P1699-1716
ISSN: 0006-3495 Publication date: 19971000
Publisher: BIOPHYSICAL SOCIETY, 9650 ROCKVILLE PIKE, BETHESDA, MD
20814-3998
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: energy profile for adjacent windows were selected from three trajectories that differed in initial ion **rotation** and were aligned by the method of **umbrella** potential differences. Neglected long-range electrostatic energies from the bulk water and the bilayer were...

18/3,K/50 (Item 19 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

06143446 Genuine Article#: XX668 No. References: 12

Title: Surgical closure of muscular ventricular septal defects using double umbrella devices (intraoperative VSD device closure)

Author(s): Murzi B (REPRINT) ; Bonanomi GL; Giusti S; Luisi VS; Bernabei M; Carminati M; Vanini V

Corporate Source: OSPED G PASQUIMUCCI, NATL RES COUNCIL, DEPT PEDIAT CARDIAC SURG & CARDIOL/MASSA//ITALY/ (REPRINT)

Journal: EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY, 1997, V12, N3 (SEP), P450-454

ISSN: 1010-7940 Publication date: 19970900

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: valve into the right ventricle and then passed through the ventricular septal defect; the distal **umbrella** of a 17 mm device was **opened** in the left ventricular cavity, a traction was applied to the introducer and the proximal **umbrella** was **opened** on the right side straddling the interventricular septum, the device was then secured on the...

18/3,K/51 (Item 20 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

06063501 Genuine Article#: XT185 No. References: 4

Title: Stimulus reactivity tests for the domestic horse (Equus caballus)

Author(s): Mackenzie SA (REPRINT) ; Thiboutot E

Corporate Source: STATE UNIV NEW YORK, COLL AGR & TECHNOL, DEPT ANIM SCI/COBLESKILL//NY/12043 (REPRINT)

Journal: EQUINE PRACTICE, 1997, V19, N7 (JUL-AUG), P21-22

ISSN: 0162-8941 Publication date: 19970700

Publisher: VETERINARY PRACTICE PUBL CO, 3 BURROUGHS DR, IRVINE, CA 92618-2804

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

...Abstract: source of a loud noise), and fast movement (time required to adjust to a rapidly **opened umbrella**) are described. A humane method for objectively estimating pain tolerance outside the laboratory (the number...

18/3,K/52 (Item 21 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

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05316034 Genuine Article#: VP201 No. References: 1

Title: FACIAL INJURY CAUSED BY AN UMBRELLA SPOKE

Author(s): MUHLER G

Corporate Source: KOLLAUER STR 9/D-04808 THALLWITZ//GERMANY//; UNIV LEIPZIG, KLIN MUND KIEFER & PLAST GESICHTSCHIRURG/D-7010 LEIPZIG//GERMANY/

Journal: HNO, 1996, V44, N10 (OCT), P590-591

ISSN: 0017-6192

Language: GERMAN Document Type: ARTICLE (Abstract Available)

...Abstract: report an unusual injury of the face caused by the spoke of an automatic telescoping **umbrella** that came loose when the **umbrella** was **opened**. Due to the shot-like force of the spoke, the left nostril, septum and right...

18/3,K/53 (Item 22 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

05275997 Genuine Article#: VM440 No. References: 32

Title: SYMPLECTIC AND LAGRANGE STABILITIES OF OPEN WHITNEY UMBRELLAS

Author(s): ISHIKAWA GO

Corporate Source: HOKKAIDO UNIV, DEPT MATH/SAPPORO/HOKKAIDO 060/JAPAN/

Journal: INVENTIONES MATHEMATICAE, 1996, V126, N2 (OCT), P215-234

ISSN: 0020-9910

Language: ENGLISH Document Type: ARTICLE

Title: SYMPLECTIC AND LAGRANGE STABILITIES OF OPEN WHITNEY UMBRELLAS

18/3,K/54 (Item 23 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

05273151 Genuine Article#: VM257 No. References: 24

**Title: FAILURE OF ONLAY BONE-GRAFTS TO INTEGRATE OVER THE CALVARIAL SUTURE
- OBSERVATIONS IN ADULT ISOGENEIC RATS**

Author(s): ALBERIUS P; GORDH M

Corporate Source: MAS, DEPT PLAST SURG/S-20502 MALMO//SWEDEN/; LUND UNIV, CTR
ORAL HLTH SCI, DEPT ORAL SURG/S-22100 LUND//SWEDEN/

Journal: JOURNAL OF CRANIO-MAXILLOFACIAL SURGERY, 1996, V24, N4 (AUG), P
251-255

ISSN: 0301-0503

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: assessed by routine microscopy and immunohistochemistry after 4, 12, and 20 weeks. The sutural tissue **expanded** between the graft and the host bed in an **umbrella** -like pattern, which locally inhibited graft incorporation. Of the tested cartilage and bone proteins and...

18/3,K/55 (Item 24 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

05050953 Genuine Article#: TL930 No. References: 0

**Title: ENDOSCOPIC TRACHEAL OBSTRUCTION WITH AN EXPANDING DEVICE IN A FETAL
LAMB MODEL - PRELIMINARY CONSIDERATIONS**

Author(s): LUKS FI; GILCHRIST BF; JACKSON BT; PIASECKI GJ

Corporate Source: RHODE ISL HOSP, DIV PEDIAT SURG MOC 180,593

EDDYST/PROVIDENCE//RI/02903; BROWN UNIV, DEPT SURG, DIV PEDIAT
SURG/PROVIDENCE//RI/02912

Journal: FETAL DIAGNOSIS AND THERAPY, 1996, V11, N1 (JAN-FEB), P67-71

ISSN: 1015-3837

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: Herein, we explore the feasibility of placing an occluding device through fetal tracheoscopy. A self- **expanding umbrella** allowed adequate sealing of the tracheal lumen even as the tracheal diameter more than doubled...

18/3,K/56 (Item 25 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

04798365 Genuine Article#: UH846 No. References: 43

Title: INFLUENCE OF IONS ON THE UNFOLDING OF THE SPERMATOOA OF THE ROCK SHRIMP, RHYNCHOCINETES-TYPUS

Author(s): DUPRE E; SCHAAF G

Corporate Source: UNIV CATOLICA NORTE, DEPT MARINE BIOL, FAC MARINESCI, LARRONDO 1281, CASILLA 117/COQUIMBO//CHILE//; UNIV TUBINGEN, FAC BIOL/TUBINGEN//GERMANY/

Journal: JOURNAL OF EXPERIMENTAL ZOOLOGY, 1996, V274, N6 (APR 15), P358-364
ISSN: 0022-104X

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: placed in seawater they unfold their arms and spines, resembling, as a result, an inverted **umbrella**. The **opening** of spermatozoa is caused by a mechanism that is triggered by sodium ions in seawater...

18/3,K/57 (Item 26 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

04645155 Genuine Article#: TZ270 No. References: 28

Title: DUAL ALIGNMENT OF LIQUID-CRYSTALS UNDER NONEQUILIBRIUM CONDITIONS

Author(s): MAGNUSON ML; FUNG BM

Corporate Source: UNIV OKLAHOMA, DEPT CHEM & BIOCHEM/NORMAN//OK/73019; UNIV OKLAHOMA, DEPT CHEM & BIOCHEM/NORMAN//OK/73019

Journal: LIQUID CRYSTALS, 1996, V20, N3 (MAR), P293-302
ISSN: 0267-8292

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: to reach a surface almost perpendicular to the axis of initial alignment, similar to the '**opening**' of an **umbrella**. The ratio of the molecules with the two kinds of preferred alignment is determined by...

18/3,K/58 (Item 27 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

03564371 Genuine Article#: PN234 No. References: 9

Title: PRIMARY TRANSCATHETER UMBRELLA CLOSURE OF PERIMEMBRANOUS VENTRICULAR SEPTAL-DEFECT

Author(s): RIGBY ML; REDINGTON AN

Corporate Source: ROYAL BROMPTON HOSP, DEPT PAEDIAT CARDIOL, SYDNEYST/LONDON SW3 6NP//ENGLAND/

Journal: BRITISH HEART JOURNAL, 1994, V72, N4 (OCT), P368-371
ISSN: 0007-0769

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: failures. Two of these were associated with a ventricular septal defect too large for the **umbrella** device. In a third case the **umbrella** was **opened** in the left ventricular outflow tract necessitating surgical removal and closure of the ventricular septal...

18/3,K/59 (Item 28 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

03502096 Genuine Article#: PH987 No. References: 94

Title: TIME-DEPENDENT PHOTODISSOCIATION OF METHYL-IODIDE WITH 5 ACTIVE-MODES

Author(s): HAMMERICH AD; MANTHE U; KOSLOFF R; MEYER HD; CEDERBAUM LS
Corporate Source: UNIV ILLINOIS, DEPT CHEM/CHICAGO//IL/60680; HEBREW UNIV JERUSALEM, FRITZ HABER RES CTR MOLECDYNAM/IL-91904 JERUSALEM//ISRAEL//; UNIV HEIDELBERG, INST PHYS CHEM/W-6900 HEIDELBERG//GERMANY//; HEBREW UNIV JERUSALEM, INST ADV STUDIES, DEPT PHYS CHEM/IL-91904 JERUSALEM//ISRAEL/
Journal: JOURNAL OF CHEMICAL PHYSICS, 1994, V101, N7 (OCT 1), P5623-5646
ISSN: 0021-9606
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: Hartree algorithm, for each electronic state. All of the currently known experimental results regarding the **umbrella** vibration, symmetric C-H stretching vibration, perpendicular **rotation**, and parallel **rotation** of the photodissociated methyl radical fragment are well reproduced. The full wavelength dependence of all...

18/3,K/60 (Item 29 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

03454459 Genuine Article#: PF943 No. References: 24

Title: TREATMENT OF ROTATIONAL ISOMERIC STATES .3. THE USE OF BIASING POTENTIALS

Author(s): STRAATSMA TP; MCCAMMON JA
Corporate Source: UNIV HOUSTON, DEPT CHEM, UNIV PK/HOUSTON//TX/77204
Journal: JOURNAL OF CHEMICAL PHYSICS, 1994, V101, N6 (SEP 15), P5032-5039
ISSN: 0021-9606
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: A technique is described to determine **umbrella** biasing potentials that can be used to enhance sampling of **rotational** isomeric states in molecular simulations of polypeptides in water. The analytical biasing potential function are...

18/3,K/61 (Item 30 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

03449427 Genuine Article#: ND443 No. References: 0

Title: GRAIN-SIZE VARIATION OF TEPHRA DERIVED FROM VOLCANIC UMBRELLA CLOUDS

Author(s): KOYAGUCHI T
Corporate Source: UNIV TOKYO, EARTHQUAKE RES INST/YAYOI/TOKYO 113/JAPAN/
Journal: BULLETIN OF VOLCANOLOGY, 1994, V56, N1 (MAR), P1-9
ISSN: 0258-8900
Language: ENGLISH Document Type: ARTICLE (Abstract Available) (NO REFS KEYED)

...Abstract: June was approximately 5×10^{10} m³/s, which is fairly consistent with the **expansion** rate of the **umbrella** cloud observed in the satellite images.

18/3,K/62 (Item 31 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

03363793 Genuine Article#: NZ992 No. References: 31

**Title: BINARY SOLVENT EFFECTS ON THE ABSORPTION AND EMISSION OF
7-AMINOCUMARINS**

Author(s): ARBELOA TL; ARBELOA FL; ESTEVEZ MJT; ARBELOA IL

Corporate Source: UNIV PAIS VASCO, EHU, FAC CIENCIAS, DEPT QUIM FIS/E-48080
BILBAO//SPAIN/; UNIV PAIS VASCO, EHU, FAC CIENCIAS, DEPT QUIM FIS/E-48080
BILBAO//SPAIN/

Journal: JOURNAL OF LUMINESCENCE, 1994, V59, N6 (JUL), P369-375

ISSN: 0022-2313

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: twisted intramolecular charge transfer (TICT) state, and by an
hybridational change of the amino group (**open** -close **umbrella** -like
motion, ULM model). Both models can explain the experimental results if
solute-solvent hydrogen...

18/3,K/63 (Item 32 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

02706057 Genuine Article#: LX760 No. References: 51

**Title: PULSED-LASER PHOTOLYSIS TIME-RESOLVED FT-IR EMISSION STUDIES OF
MOLECULAR-DYNAMICS**

Author(s): ROGERS SA; LEONE SR

Corporate Source: NATL INST STAND & TECHNOL, JOINT INST LAB ASTROPHYS, DIV
QUANTUM PHYS/BOULDER//CO/80309; NATL INST STAND & TECHNOL, JOINT INST
LAB ASTROPHYS, DIV QUANTUM PHYS/BOULDER//CO/80309; UNIV COLORADO, DEPT
CHEM & BIOCHEM/BOULDER//CO/80309

Journal: APPLIED SPECTROSCOPY, 1993, V47, N9 (SEP), P1430-1437

ISSN: 0003-7028

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Identifiers--SELECTIVE PHOTODISSOCIATION DYNAMICS; INFRARED-EMISSION;
VIBRATIONAL DISTRIBUTIONS; 193 NM; PHOTOFAGMENTATION DYNAMICS;
ROTATIONAL -EXCITATION; STATE DISTRIBUTIONS; METHYL RADICALS; **UMBRELLA**
MODE; SPECTROSCOPY

18/3,K/64 (Item 33 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

(c) 2003 Inst for Sci Info. All rts. reserv.

01837270 Genuine Article#: JE764 No. References: 0

**Title: MORPHOLOGY OF THE NORMAL VISUAL-FIELD IN A POPULATION-BASED RANDOM
SAMPLE - PRINCIPAL COMPONENTS-ANALYSIS**

Author(s): ODEN N

Corporate Source: SUNY STONY BROOK, DEPT PREVENT MED/STONY BROOK//NY/11790

Journal: STATISTICS IN MEDICINE, 1992, V11, N9 (JUN 30), P1131-1150

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: eyes, reveals that, as average threshold increases, the visual
field rises and flattens, like an **umbrella** that, initially closed, is
simultaneously **opened** and thrust upwards. I verify three numerical
predictions based upon this umbrella description. Much less...

18/3,K/65 (Item 34 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

01749677 Genuine Article#: HX426 No. References: 19

Title: PARAMETRIZATION OF A SINGULAR LAGRANGIAN VARIETY

Author(s): ISHIKAWA G

Corporate Source: HOKKAIDO UNIV, FAC SCI, DEPT MATH/SAPPORO/HOKKAIDO
060/JAPAN/

Journal: TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY, 1992, V331, N2
(JUN), P787-798

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: one variable and generalize the results of Arnol'd and
Givental'. The class contains the **open** swallowtails and the **open**
Whitney **umbrella**. The parametrization is associated with the
singularity of a stable mapping (in the sense of...

18/3,K/66 (Item 35 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

01508224 Genuine Article#: HE008 No. References: 33

Title: ON THE MECHANISM OF RADIATIONLESS DEACTIVATION OF RHODAMINES

Author(s): ARBELOA TL; ARBELOA FL; BARTOLOME PH; ARBELOA IL

Corporate Source: UNIV PAIS VASCO, EUSKAL HERRIKO UNIBERTSITATEA, DEPT QUIM
FIS, APARTADO 644/E-48080 BILBAO//SPAIN/

Journal: CHEMICAL PHYSICS, 1992, V160, N1 (FEB 15), P123-130

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: N-H vibrations, the formation of a twisted intramolecular
charge transfer state (TICT) and the **open** -close **umbrella** -like
motion model (ULM) are considered. Both the TICT and the ULM models
can explain...

18/3,K/67 (Item 36 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

01470318 Genuine Article#: HB131 No. References: 29

**Title: THE LOCAL MODEL OF AN ISOTROPIC MAP-GERM ARISING FROM
ONE-DIMENSIONAL SYMPLECTIC REDUCTION**

Author(s): ISHIKAWA G

Corporate Source: HOKKAIDO UNIV, DEPT MATH/SAPPORO/HOKKAIDO 060/JAPAN/

Journal: MATHEMATICAL PROCEEDINGS OF THE CAMBRIDGE PHILOSOPHICAL SOCIETY,
1992, V111, JAN (JAN), P103-112

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: one-dimensional reduction), up to symplectic equivalence in
the C infinity category. These models are **open** Whitney **umbrellas**
of arbitrary dimension and their suspensions. These singularities
appear in the generalized Cauchy problem for...

18/3,K/68 (Item 37 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

01295093 Genuine Article#: GL829 No. References: 15

Title: STATIC SHAPE AND INSTABILITY OF AN ACOUSTICALLY LEVITATED LIQUID-DROP

Author(s): LEE CP; ANILKUMAR AV; WANG TG
Corporate Source: VANDERBILT UNIV,CTR MICROGRAV RES & APPLICAT/NASHVILLE//TN/37235
Journal: PHYSICS OF FLUIDS A-FLUID DYNAMICS, 1991, V3, N11, P2497-2515
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: from its unstable ripples. For a general viscosity, it might also buckle upward like an **umbrella** and shatter, or might simply **expand** horizontally like a sheet and shatter. Using a dislike model for the flattened drop, the...

18/3,K/69 (Item 38 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

00919328 Genuine Article#: FF820 No. References: 27

Title: ENERGY-DISTRIBUTION IN ANILINE SCATTERED FROM VARIOUS LOW-ENERGY SURFACES

Author(s): PAZ Y; NAAMAN R
Corporate Source: WEIZMANN INST SCI,DEPT CHEM PHYS/IL-76100 REHOVOT//ISRAEL/
Journal: JOURNAL OF CHEMICAL PHYSICS, 1991, V94, N7, P4921-4927
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: a LiF single crystal surface. Applying multiphoton ionization and time of flight measurements the vibrational, **rotational**, and translational energy distributions were measured simultaneously. The NH2 "**umbrella**" like mode was found to be a very efficient accepting mode in the energy transfer...

18/3,K/70 (Item 39 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

00906990 Genuine Article#: FE893 No. References: 29

Title: MEMBRANE INSERTION OF THE PORE-FORMING DOMAIN OF COLICIN-A - A SPECTROSCOPIC STUDY

Author(s): LAKEY JH; MASSOTTE D; HEITZ F; DASSEUX JL; FAUCON JF; PARKER MW; PATTUS F
Corporate Source: EUROPEAN MOLEC BIOL LAB,MEYERHOFSTR 1,POSTFACH 102209/D-6900 HEIDELBERG//FED REP GER/; EUROPEAN MOLEC BIOL LAB,MEYERHOFSTR 1,POSTFACH 102209/D-6900 HEIDELBERG//FED REP GER/; CNRS,CTR RECH PAUL PASCAL/F-33405 TALENCE//FRANCE/; CNRS,PHYS ICOCHIM SYST POLYPHASES LAB/F-34033 MONTPELLIER//FRANCE/
Journal: EUROPEAN JOURNAL OF BIOCHEMISTRY, 1991, V196, N3, P599-607
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: data from this study support the model presented previously in which the known crystal structure **opens** like an '**umbrella**' inserting the hydrophobic hairpin (helix 8-9) perpendicular to the membrane plane and the helical...

18/3,K/71 (Item 40 from file: 34)

DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.

00888118 Genuine Article#: FD735 No. References: 24

Title: PHOTODISSOCIATION OF ACETONE AT 193 NM - ROTATIONAL-STATE AND VIBRATIONAL-STATE DISTRIBUTIONS OF METHYL FRAGMENTS BY DIODE-LASER ABSORPTION GAIN SPECTROSCOPY

Author(s): HALL GE; VANDENBOUT D; SEARS TJ

Corporate Source: BROOKHAVEN NATL LAB, DEPT CHEM/UPTON//NY/11973

Journal: JOURNAL OF CHEMICAL PHYSICS, 1991, V94, N6, P4182-4188

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: populations of CD3 fragments formed in the photodissociation of acetone-d6 at 193 nm. Selected **rotational** lines have been measured in the v2 " **umbrella** " fundamental and first two hot bands, and in the v3 asymmetric stretching fundamental band. Substantial...

18/3,K/72 (Item 1 from file: 63)

DIALOG(R)File 63:Transport Res(TRIS)

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00831697 DA

TITLE: BOMBARDIER OPENS INDUSTRY UMBRELLA .

AUTHOR(S): DAVID CARR.

CORPORATE SOURCE: BOMBARDIER CORPORATION., DE HAVILLAND, INC.,

JOURNAL: INTERAVIA,

SUPPLEMENTAL NOTES: INTERAVIA, V. 47, NO. 3 (MAR. 1992), P. 23-25: ILL.

PUBLICATION DATE: 19920000 PUBLICATION YEAR: 1992

LANGUAGE: ENGLISH SUBFILE: TLIB (L)

DATA SOURCE: NORTHWESTERN UNIVERSITY TRANSPORTATION LIBRARY

TITLE: BOMBARDIER OPENS INDUSTRY UMBRELLA .

18/3,K/73 (Item 2 from file: 63)

DIALOG(R)File 63:Transport Res(TRIS)

(c) fmt only 2003 Dialog Corp. All rts. reserv.

00808505 DA

TITLE: SYSNET ON-BOARD MULTIMEDIA APPLICATION

AUTHOR(S): Giuseppe, Faranda Cordella; Braja, Federico; Bozzo, Stefano

CORPORATE SOURCE: Fiat (Firm),

JOURNAL: World Congress on Intelligent Transport Systems (7th : 2000 : Turin Italy). Proceedings : from vision to reality [CD-ROM] Pag: 7 p.

SUPPLEMENTAL NOTES: Publication Date: 2000 ITS Congress Association,

Brussels Remarks: Paper 2288 presented at 7th World Congress on ITS

PUBLICATION DATE: 20000000 PUBLICATION YEAR: 2000

LANGUAGE: eng SUBFILE: PATH

SOURCE ACCESSION NUMBER: PATH Record Number 22375

AVAILABILITY: Item held at Univ. of Calif., Berkeley, Inst Transp Studies

Lib Refer to: <http://www.lib.berkeley.edu/ITSL/services.html>

DATA SOURCE: UC Berkeley Transportation Library - PATH Database

...ABSTRACT: different areas of the vehicle. The goal of the SYSNET project (under the MEDEA-EUREKA **umbrella**) is to provide such an **open** architecture that is connected to the vehicle information platform to create a unique system with...

18/3,K/74 (Item 1 from file: 65)

DIALOG(R)File 65:Inside Conferences

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03755244 INSIDE CONFERENCE ITEM ID: CN039482710

Portal pragmatics 2001: opening an umbrella

Arnold, S.

CONFERENCE: International online information meeting-24th

ONLINE INFORMATION -INTERNATIONAL MEETING-, 2000; 24TH P: 17-20

Oxford, Learned Information Europe Ltd, 2000

ISSN: 1465-4199 ISBN: 190087153X

LANGUAGE: English DOCUMENT TYPE: Conference Papers, presentations and programme

CONFERENCE EDITOR(S): Graham, C.

CONFERENCE SPONSOR: Learned Information Europe Ltd

CONFERENCE LOCATION: London 2000; Dec (200012) (200012)

Portal pragmatics 2001: opening an umbrella

18/3,K/75 (Item 2 from file: 65)

DIALOG(R)File 65:Inside Conferences

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01496261 INSIDE CONFERENCE ITEM ID: CN014852682

Thom polynomials for open Whitney umbrellas of isotropic mappings

Ohmoto, T.

CONFERENCE: Singularities and differential equations-Symposium

BANACH CENTER PUBLICATIONS, 1996; VOL 33 P: 287-296

Institute of Mathematics, Polish Academy of Sciences, 1996

ISSN: 0137-6934

LANGUAGE: English DOCUMENT TYPE: Conference Papers

CONFERENCE EDITOR(S): Janeczko, S.; Zajaczkowski, W. M.; Ziemian, B.

CONFERENCE SPONSOR: Polish Academy of Sciences Institute of Mathematics

CONFERENCE LOCATION: Warsaw, [publ date] 1996 (199600) (199600)

Thom polynomials for open Whitney umbrellas of isotropic mappings

18/3,K/76 (Item 1 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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04613125 JICST ACCESSION NUMBER: 00A0013526 FILE SEGMENT: JICST-E

Development of the Kasamawashi Robot.

WATANABE SHINGO (1); KIYOHIO NORIAKI (1); KODA MICHITOMO (2)

(1) Yamanashi Univ.; (2) Sony Corp.

Nippon Robotto Gakkai Gakujutsu Koenkai Yokoshu, 1999,

VOL.17th,dai3bunsatsu, PAGE.879-880, FIG.4, REF.2

JOURNAL NUMBER: X0008AAR

UNIVERSAL DECIMAL CLASSIFICATION: 688+681.8

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

...ABSTRACT: Japanese traditional performance, requiring considerable human skill; keeping position of a rolling object on a **rotation umbrella**. The simulation results show the ball location is controllable for the parameters of the roll...

18/3,K/77 (Item 2 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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04092037 JICST ACCESSION NUMBER: 99A0453394 FILE SEGMENT: JICST-E
**Total Grain Size Distribution and Total Mass of TB Tephra of the Izu-Oshima
1986 Eruption, Japan.**

MANNEN KAZUTAKA (1)
(1) Kanagawa Hot Springs Res. Inst.
Kazan(Bulletin of the Volcanological Society of Japan), 1999, VOL.44,NO.2,
PAGE.55-70, FIG.14, TBL.3, REF.19
JOURNAL NUMBER: G0918AAA ISSN NO: 0453-4360 CODEN: KAZAA
UNIVERSAL DECIMAL CLASSIFICATION: 551.21/.23
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

...ABSTRACT: reasonable because plinian eruption has a much smaller k
presumably due to a much higher **expansion** rate of **umbrella** cloud.
The obtained maximum estimation of the total mass of TB tephra is up to
...

18/3,K/78 (Item 3 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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03446433 JICST ACCESSION NUMBER: 98A0156303 FILE SEGMENT: JICST-E
Ball Positioning Control of Kasamawashi robot.
KIYOHIO NORIAKI (1); KODA MICHITOMO (2)
(1) Yamanashi Univ.; (2) Sony Corp.
Nippon Kikai Gakkai Robotikusu, Mekatoronikusu Koenkai Koen Ronbunshu, 1997
, VOL.1997,NO.Vol.A, PAGE.375-376, FIG.8, REF.5
JOURNAL NUMBER: L0318AAB
UNIVERSAL DECIMAL CLASSIFICATION: 007.52:681.51
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication

...ABSTRACT: Japanese traditional performance, requiring considerable human
skill; keeping position of a rolling object on a **rotating umbrella**.
The simulation results show the ball location is controllable for the
parameters of the roll...

18/3,K/79 (Item 4 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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03041745 JICST ACCESSION NUMBER: 97A0029202 FILE SEGMENT: JICST-E
Development of the Kasamawashi Robot. (2nd Report).
KODA MICHITOMO (1); KIYOHIO NORIAKI (1)
(1) Yamanashi Univ.
Nippon Robotto Gakkai Gakujutsu Koenkai Yokoshu, 1996, VOL.14th,NO.2,
PAGE.451-452, FIG.6, REF.3
JOURNAL NUMBER: X0008AAR
UNIVERSAL DECIMAL CLASSIFICATION: 688+681.8
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication

...ABSTRACT: Japanese traditional performance, requiring considerable human skill; keeping position of a rolling object on a **rotating umbrella**. The simulation results show the ball location is controllable for the parameters of the roll...

18/3,K/80 (Item 5 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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02979772 JICST ACCESSION NUMBER: 96A0713361 FILE SEGMENT: JICST-E
Contravention bicycling by high school students. (Research on safe bicycling for going to schools). (2)
OHASHI KOSHIRO (1); KONDO TOSHIRO (1); KOBENNO YASUSHI (1); WASHIMI KANEYUKI (1); HAYASHI HIROAKI (1)
(1) Jpn. Bicycl. Promot. Inst.
Jitensha Gijutsu Joho, 1996, NO.70, PAGE.1-14, FIG.42, REF.1
JOURNAL NUMBER: F0389DAI ISSN NO: 0387-7396
UNIVERSAL DECIMAL CLASSIFICATION: 656.1-051
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication

...ABSTRACT: for commuting. Experimental riding consisted of one-person riding two-seated ride and riding with **opened umbrella**. By treating speeds and handle shapes, etc. as parameters, rushout avoidance, obstacle avoidance, sudden braking...

...measured. Dangerous acceleration upon rushout avoidance in cases of two-seater running and running with **open umbrella** are pointed out. This paper shows the burden against a bicycle.

18/3,K/81 (Item 6 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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02963512 JICST ACCESSION NUMBER: 97A0910290 FILE SEGMENT: PreJICST-E
Continuation separation of heteromorphic fine particle groups with an umbrella rotational oscillation disk. Effect of throughput on separation characteristics.
TOOYAMA MASAKAZU (1); YAMAMOTO KEN'ICHI (1); SUGIMOTO MASUNORI (1)
(1) Toyama Univ., Fac. of Eng.
Funtai Kogakkai Kenkyu Happyokai Koen Ronbunshu, 1996, VOL.1996,shuki, PAGE.169-172
JOURNAL NUMBER: L1414AAZ
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
MEDIA TYPE: Printed Publication

Continuation separation of heteromorphic fine particle groups with an umbrella rotational oscillation disk. Effect of throughput on separation characteristics. ...

18/3,K/82 (Item 7 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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02869849 JICST ACCESSION NUMBER: 97A0333688 FILE SEGMENT: PreJICST-E

ESR Spectrum of tert-Butyl Radical.

KUBOTA SOICHI (1); MOMOSE TAKAMASA (1); SHIDA TADAMASA (1)

(1) Kyoto Univ., Graduate School

Bunshi Kozo Sogo Toronkai Koen Yoshishu, 1996, VOL.1996, PAGE.674

JOURNAL NUMBER: L0848AAV

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

MEDIA TYPE: Printed Publication

...ABSTRACT: by a permutation-inversion group theoretical approach. As the internal degrees of freedom the internal **rotation** of three methyl groups and the **umbrella** motion of the carbon skeleton were taken into account. The barrier of internal rotation of...

18/3,K/83 (Item 8 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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02692784 JICST ACCESSION NUMBER: 96A0365489 FILE SEGMENT: JICST-E

Translocation of a Mimic Little Super Protein(LSP) from Aqueous Solution into Lipid Bilayers.

KIYOTA T (1); KUNITAKE T (1); LEE S (1); SUGIHARA G (1); YAMASHITA S (2)

(1) Fukuoka Univ., Fukuoka, JPN; (2) Kyushu Univ., Fukuoka, JPN

Pept Chem, 1996, VOL.1995, PAGE.525-528, FIG.6, REF.5

JOURNAL NUMBER: X0695AAF

UNIVERSAL DECIMAL CLASSIFICATION: 576.314

LANGUAGE: English

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

...ABSTRACT: hydrophobic central .ALPHA.-helix is inserted spontaneously into the lipid bilayers possibly by taking an **open umbrella** -like structure. (author abst.)

18/3,K/84 (Item 9 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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02387906 JICST ACCESSION NUMBER: 95A0650532 FILE SEGMENT: JICST-E

A Patient-controlled Analgesia System Using a Disposable Balloon catheter, a PCA Polyethylene Reservoir and a One-way Umbrella Check Valve.

KINOSHITA KODAI (1)

(1) Tokyo Medical College

Masui(Japanese Journal of Anesthesiology), 1995, VOL.44,NO.7,

PAGE.1037-1040, FIG.6, REF.4

JOURNAL NUMBER: F0838AAI ISSN NO: 0021-4892 CODEN: MASUA

UNIVERSAL DECIMAL CLASSIFICATION: 615.472/.473 616.83-08

LANGUAGE: Japanese

COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

...ABSTRACT: assuming subcutaneous dose), 3ml(intravenous dose) and 5ml(epidural dose or peroral dose). The other **opening** of the Y-connector is equipped with a one-way **umbrella** check valve(**opening** pressure, 320-370mmHg) to prevent the analgesic solution from flowing medially unless the PCA polyethylene...

18/3,K/85 (Item 10 from file: 94)
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02050287 JICST ACCESSION NUMBER: 94A0490045 FILE SEGMENT: JICST-E
Development of a high flow venous cannula with umbrella type basket tip.
ENDO MASAHIRO (1); NISHIDA HIROSHI (1); KOYANAGI HITOSHI (1); TAGA TAKASHI (2)
(1) Tokyo Women's Med. Coll.; (2) Medikitto
Jinko Zoki, Nippon Jinko Zoki Gakkai(Japanese Journal of Artificial Organs), 1994, VOL.23,NO.3, PAGE.960-963, FIG.4, REF.4
JOURNAL NUMBER: Z0557BAD ISSN NO: 0300-0818
UNIVERSAL DECIMAL CLASSIFICATION: 615.472/.473 616.12-089
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

...ABSTRACT: inner diameter is comparable, 33 French size. This cannula has a basket type tip which **opens** and closes like an **umbrella**, consisting of a shape-memory polyurethane. A sheath with an outer diameter of 41 French...

18/3,K/86 (Item 11 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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01678792 JICST ACCESSION NUMBER: 93A0111782 FILE SEGMENT: JICST-E
Measures Against Snow and Indoor Environment of Akita Sky Dome.
HOTTA YO (1); HAYAKAWA SHIN (1); SAKURA ISAMU (1); TSUCHIDA CHIAKI (1)
(1) Kajima Corp.
Kuki Chowa, Eisei Kogaku, 1992, VOL.66,NO.12, PAGE.901-912, FIG.36, TBL.2, REF.4
JOURNAL NUMBER: F0331AAY ISSN NO: 0386-4081 CODEN: KCEKA
UNIVERSAL DECIMAL CLASSIFICATION: 628.81+697.1/.7 624.139/.14
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication

...ABSTRACT: an air supported structure, has a membrane roof on arched steel frames such as a **parasol**, so it can be equipped with the big automatically **opennable** window to have natural ventilation. (author abst.)

18/3,K/87 (Item 12 from file: 94)
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01467986 JICST ACCESSION NUMBER: 92A0255268 FILE SEGMENT: JICST-E
Equipment System Design for Akita Sky Dome and it's Evaluation of

Performance.

HOTTA YO (1); SAKURA ISAMU (1); TSUCHIDA CHIAKI (1); HAYAKAWA SHIN (2)
(1) Kajima Corp.; (2) Kajima Corp.
Kuki Chowa, Eisei Kogaku, 1992, VOL.66,NO.3, PAGE.147-157, FIG.29, REF.3
JOURNAL NUMBER: F0331AAY ISSN NO: 0386-4081 CODEN: KCEKA
UNIVERSAL DECIMAL CLASSIFICATION: 628.81+697.1/.7
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Commentary
MEDIA TYPE: Printed Publication

...ABSTRACT: an air supported structure, has a membrane roof on arched
steel frames such as a **parasol**, so it can be equipped with the big
automatically **opennable** window to have natural ventilation. (author
abst.)

18/3,K/88 (Item 13 from file: 94)

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01161408 JICST ACCESSION NUMBER: 90A0616279 FILE SEGMENT: JICST-E
**Study of particle shape separation performance of umbrella rotating
discs based on particle rolling characteristics on an inclined plate.**
YAMAMOTO KEN'ICHI (1); HAMA TAKESHI (1); SUGIMOTO MASUNORI (1)
(1) Toyama Univ., Faculty of Engineering
Kagaku Kogakkai Nenkai Kenkyu Happyo Koen Yoshishu, 1990, VOL.55th,
PAGE.152, FIG.4, TBL.1, REF.3
JOURNAL NUMBER: X0547ABA
UNIVERSAL DECIMAL CLASSIFICATION: 66.065
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication

**Study of particle shape separation performance of umbrella rotating
discs based on particle rolling characteristics on an inclined plate.**

18/3,K/89 (Item 14 from file: 94)

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01118275 JICST ACCESSION NUMBER: 90A0566361 FILE SEGMENT: JICST-E
**Analysis of factors which affect particle shape separation by umbrella
-form rotating disc contactor.**
TSUKADA TATSUO (1); YAMAMOTO KEN'ICHI (1); SUGIMOTO MASUNORI (1)
(1) Toyama Univ., Faculty of Engineering
Kagaku Kogaku Kyokai Nenkai Kenkyu Happyo Koen Yoshishu, 1988, VOL.53rd,
PAGE.242, FIG.3, TBL.2
JOURNAL NUMBER: X0547AAJ
UNIVERSAL DECIMAL CLASSIFICATION: 621.926/.929
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Conference Proceeding
ARTICLE TYPE: Short Communication
MEDIA TYPE: Printed Publication

**Analysis of factors which affect particle shape separation by umbrella
-form rotating disc contactor.**

18/3,K/90 (Item 15 from file: 94)

DIALOG(R)File 94:JICST-EPlus

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00853467 JICST ACCESSION NUMBER: 89A0162287 FILE SEGMENT: JICST-E

Proposal for an umbrella type expandable truss structure.

TANIZAWA KAZUO (1); NAKAGAWA JUN (1); TABATA MASAKI (2)

(1) Mitsubishi Electric Corp., Kamakura Machinery Works; (2) Mitsubishi Electric Corp., Central Res. Lab.

Uchu Kagaku Gijutsu Rengo Koenkai Koenshu(Proceedings of the Space Sciences and Technology Conference), 1988, VOL.32nd, PAGE.100-101, FIG.4, TBL.1, REF.4

JOURNAL NUMBER: S0277ACS

UNIVERSAL DECIMAL CLASSIFICATION: 629.7.01/.02

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Conference Proceeding

ARTICLE TYPE: Short Communication

MEDIA TYPE: Printed Publication

Proposal for an umbrella type expandable truss structure.

18/3,K/91 (Item 1 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2173187 H.W. WILSON RECORD NUMBER: BAST00053119

Ford: big, bigger, biggest

Gross, Ken;

Automotive Industries v. 180 no7 (July 2000) p. 64

DOCUMENT TYPE: Feature Article ISSN: 0273-656X

ABSTRACT: The strategic moves made by Jac Nasser and Bill Ford to **expand** Ford Motor Co.'s brand **umbrella**, define the products covered by it, and develop those products will enable the automaker to...

18/3,K/92 (Item 2 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2062491 H.W. WILSON RECORD NUMBER: BAST00011457

Three-dimensional photodissociation dynamics of rotational state selected methyl iodide

Xie, Daigian; Guo, Hua; Amatatsu, Yoshiaki

The Journal of Physical Chemistry A v. 104 no5 (Feb. 10 2000) p. 1009-19

DOCUMENT TYPE: Feature Article ISSN: 1089-5639

...ABSTRACT: and more spin-free configurations. The dynamical model includes the C-I stretch, C-H3 **umbrella** bend, and I-C-H3 bend and allows the overall **rotation**. The wave packet is propagated in the Chebyshev order domain. The absorption spectrum, product vibrational...

18/3,K/93 (Item 3 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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2045315 H.W. WILSON RECORD NUMBER: BAST00015567

Are some brands stretched too wide?

Windecker, Ray;

Automotive Industries v. 180 no2 (Feb. 2000) p. 21

DOCUMENT TYPE: Feature Article ISSN: 0273-656X

ABSTRACT: **Umbrella** brands in the automotive industry are currently being **expanded** and fractured. Brand management has now entered the mainstream of thinking among automotive marketers. The...

18/3,K/94 (Item 4 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1547983 H.W. WILSON RECORD NUMBER: BAST96019206

Tiny umbrella keeps drugs safe

Bradley, David;

New Scientist v. 149 (Mar. 2 '96) p. 18

DOCUMENT TYPE: Feature Article ISSN: 0262-4079

...ABSTRACT: drug would be attached to the handle, with the canopy closed over it. When the **umbrella** reached its target cell, the canopy should **open** , releasing the drug.

18/3,K/95 (Item 5 from file: 99)

DIALOG(R)File 99:Wilson Appl. Sci & Tech Abs

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1347805 H.W. WILSON RECORD NUMBER: BAST96018826

BA knocks antitrust bid by United-Lufthansa

Morrocco, John D;

Aviation Week & Space Technology v. 144 (Mar. 11 '96) p. 34

DOCUMENT TYPE: Feature Article ISSN: 0005-2175

ABSTRACT: The request for antitrust immunity under the **umbrella** of the U.S.-German **open** skies pact made by United Airlines and Lufthansa has been criticized by British Airways (BA...

18/3,K/96 (Item 1 from file: 434)

DIALOG(R)File 434:SciSearch(R) Cited Ref Sci

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00053588 Genuine Article#: S0268 No. References: 0

Title: INFERIOR VENA CAVAL INTERRUPTION IN CONJUNCTION WITH OPEN -HEART PROCEDURES - TECHNIQUE USING TRANSATRIAL INSERTION OF MOBIN-UDDIN UMBRELLA FILTER

Author(s): WELLONS HA

Corporate Source: UNIV VIRGINIA,MED CTR,DEPT SURG/CHARLOTTESVILLE//VA/22901

Journal: ANNALS OF THORACIC SURGERY, 1974, V17, N2, P141-143

Language: ENGLISH Document Type: ARTICLE (NO REFS KEYED)

Title: INFERIOR VENA CAVAL INTERRUPTION IN CONJUNCTION WITH OPEN -HEART PROCEDURES - TECHNIQUE USING TRANSATRIAL INSERTION OF MOBIN-UDDIN UMBRELLA FILTER